

AWP-ZX7

SERVICE MANUAL

Ver 1.0 2004.05

US Model
Canadian Model
AEP Model
UK Model
E Model

- AWP-ZX7 is composed of following models.
As for the service manual, it is issued for each component model, then, please refer to them.

COMPONENT MODEL NAME

	AWP-ZX7
COMPACT DISK DECK RECEIVER SYSTEM	CX-LZX7
SPEAKER SYSTEM	SSX-LZX7

- Abbreviation
CND : Canadian model
E51 : Chilean and Peruvian models
KR : Korean model
SP : Singapore model

PARTS LIST

Part No.	Description	Remark
ACCESORIES		

1-478-520-11	COMMANDER, STANDARD (RM-Z20051)	(INCLUDING BATTERY COVER)
1-754-102-31	ANTENNA, LOOP (LW.MW)	
1-754-243-11	ANTENNA (FM)	
△1-770-019-51	ADAPTOR, CONVERSION PLUG (UK)	
1-793-184-23	CONNECTOR (F TYPE ADAPTOR)	
1-823-704-11	CUSHION CORD, CONNECTION (USB)	
4-210-254-02	CUSHION (FOOT)(FOR SPEAKER)	
4-254-179-11	MANUAL, INSTRUCTION (ENGLISH)(EXCEPT KR)	
4-254-179-21	MANUAL, INSTRUCTION (FRENCH)(CND, AEP, SP)	
4-254-179-31	MANUAL, INSTRUCTION (SPANISH)(US, AEP, SP, E51)	
4-254-179-41	MANUAL, INSTRUCTION (CZECH, GERMAN, HANGARIAN, ITALIAN, POLISH, RUSSIAN)(AEP)	
4-254-179-51	MANUAL, INSTRUCTION (CHINESE)(SP)	
4-254-179-61	MANUAL, INSTRUCTION (KOREAN)(KR)	

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

MICRO HI-FI COMPONENT SYSTEM



CX-LZX7

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- CX-LZX7 is the Amplifier, CD player, Tape Deck and Tuner section in AWP-ZX7.

CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM69CV-F4BD81B2
	Base Unit Name	BU-F4BD81B2
	Optical Pick-up Name	KSM-215CFP/C2NP
TAPE Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	CMAL1Z250A

SPECIFICATIONS

Main Unit

Amplifier section

For the U.S. model

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 6-ohm loads, both channels driven, from 120 – 10,000 Hz: rated 60 watts per channel minimum RMS power, with no more than 10% total harmonic distortion from 250 milliwatts to rated output.

North American model:

Continuous RMS power output (reference):

60 + 60 W
(6 ohms at 1 kHz, 10% THD)

Total harmonic distortion less than 0.05% (6 ohms at 1 kHz, 30 W)

European model:

DIN power output (rated): 45 + 45 W
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):
60 + 60 W
(6 ohms at 1 kHz, 10% THD)

Music power output (reference):
100 + 100 W
(6 ohms at 1 kHz, 10% THD)

Other models:

The following measured at 220 – 240 V AC, 50/60 Hz

DIN power output (rated): 45 + 45 W
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):

60 + 60 W
(6 ohms at 1 kHz, 10% THD)

Inputs

AUX IN (RCA pin jacks): Sensitivity 1 V,
impedance 47 kilohms

Outputs

PHONES (stereo mini jack):
accepts headphones with
an impedance of 32 ohms
or more
SPEAKER:
accepts impedance of
6 ohms
SUB WOOFER OUT:
voltage 1.5 V

CD player section

System: Compact disc and digital
audio system
Laser: Semiconductor laser
(λ=770 – 810 nm)
Emission duration:
continuous
Frequency response: 20 Hz – 20 kHz
Signal-to-noise ratio: More than 90 dB
Dynamic range: More than 90 dB

Tape deck section

Recording system: 4-track 2-channel stereo
Frequency response: 100 – 10,000 Hz, using
Sony TYPE I cassettes

Tuner section

FM stereo, FM/AM superheterodyne tuner
FM tuner section
Tuning range
North American model: 87.5 – 108.0 MHz
(100-kHz step)
Other models: 87.5 – 108.0 MHz
(50-kHz step)
Antenna: FM lead antenna
Antenna terminals: 75 ohms unbalanced
Intermediate frequency: 10.7 MHz

— Continued on next page —

MICRO HI-FI COMPONENT SYSTEM



AM tuner section	
Tuning range	
Pan-American model:	530 — 1,710 kHz (with the tuning interval set at 10 kHz)
	531 — 1,710 kHz (with the tuning interval set at 9 kHz)
European model:	531 — 1,602 kHz (with the tuning interval set at 9 kHz)
Other models:	530 — 1,710 kHz (with the tuning interval set at 10 kHz) 531 — 1,602 kHz (with the tuning interval set at 9 kHz)
Antenna	AM loop antenna, external antenna terminal
Intermediate frequency	450 kHz

General

Power requirements

North American model:	120 V AC, 60 Hz
European model:	230 V AC, 50/60 Hz
Korean model:	220 V AC, 60 Hz
Other models:	120 V, 220 V or 230 — 240 V AC, 50/60 Hz Adjustable with voltage selector

Power consumption

North American model:	60 W
European model:	60 W 0.3 W (in Power Saving mode)
Other models:	70 W

Dimensions (w/h/d) incl. projecting parts and controls
Amplifier/Tuner/Tape/CD section:

Approx. 190 x 277 x
361.4 mm

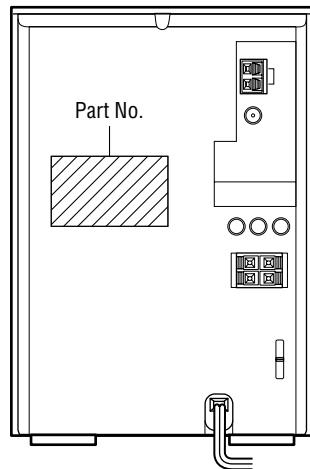
Mass

Amplifier/Tuner/Tape/CD section:
Approx. 6.2 kg

Design and specifications are subject to change
without notice.

MODEL IDENTIFICATION

— Back Panel —



Model Name	Part No.
US model	4-254-181-0□
AEP, UK models	4-254-181-1□
E51 model	4-254-181-3□
CND model	4-254-181-4□
SP model	4-254-181-6□
Korean model	4-254-181-7□

- Abbreviation

CND : Canadian model
E51 : Chilean and Peruvian models
KR : Korean model
SP : Singapore model

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE \triangle SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

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SECTION 1

SERVICING NOTES

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

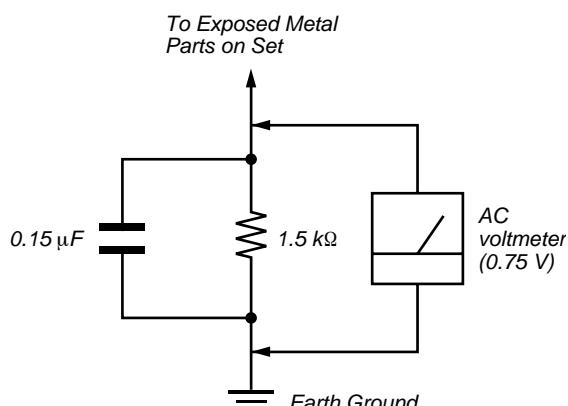
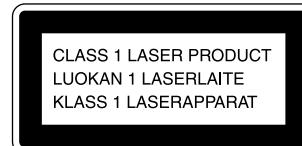


Fig.A. Using an AC voltmeter to check AC leakage.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.



Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

Carry out the "S curve check" in "CD section adjustment" and check that the S curve waveforms are output three times.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

LF: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
Soldering irons using a temperature regulator should be set to about 350 °C.
Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

SECTION 2

GENERAL

This section is extracted
from instruction manual.

List of button locations and reference pages

How to use this page

Use this page to find the location of buttons and other parts of the system that are mentioned in the text.

Illustration number

DISPLAY **23** (16, 23)

Name of button/part

Reference page

Main unit

ALPHABETICAL ORDER

A - O

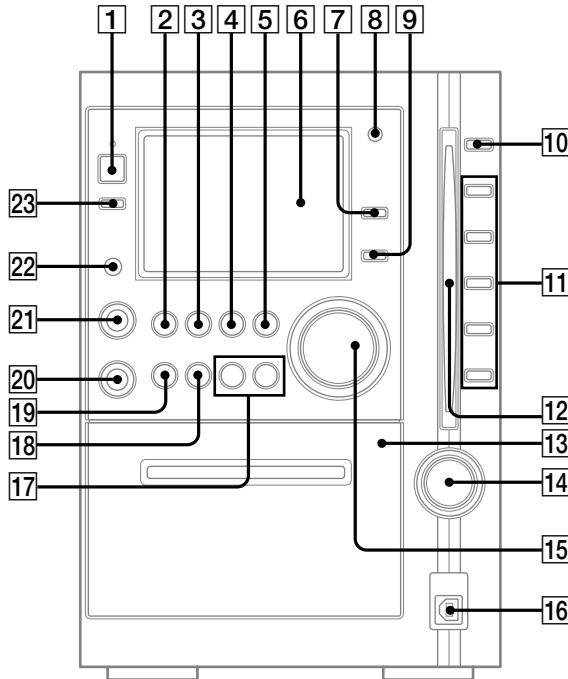
BASS control **20** (20)
CD SYNC **7** (18)
DIRECTION **19** (17, 18, 19, 22)
DISC 1 – 5 **11** (10, 11, 13, 18)
Disc slot **12** (10)
DISPLAY **23** (16, 23)
Display window **6**
FUNCTION **5** (9, 10, 13, 14, 15, 17, 19, 26, 29, 31)
i-Bass **14** (20, 34)

P - Z

PHONES jack **22**
PLAY MODE **19** (11, 13, 18)
Remote sensor **8**
TREBLE control **21** (20)
TUNER BAND **4** (14, 15, 19)
TUNING +/- **17** (14, 15)
TUNING MODE **19** (14, 15)
USB port **16** (25, 30)
VOLUME control **15** (29)

BUTTON DESCRIPTIONS

I/Ø (power) **1** (8, 15, 26, 34)
TAPE **◀▶** (play) **2** (17, 18, 22)
CD **▶■** (play pause) **3** (11)
● REC PAUSE/START **9** (18)
▲ CD (eject) **10** (9, 10)
▲ PUSH **13** (17)
◀◀/▶▶ (go back/go forward) **17** (11)
◀◀/▶▶ (rewind/fast forward) **17** (9, 11, 15, 17)
■ (stop) **18** (11, 15, 17, 18)



Remote control

ALPHABETICAL ORDER

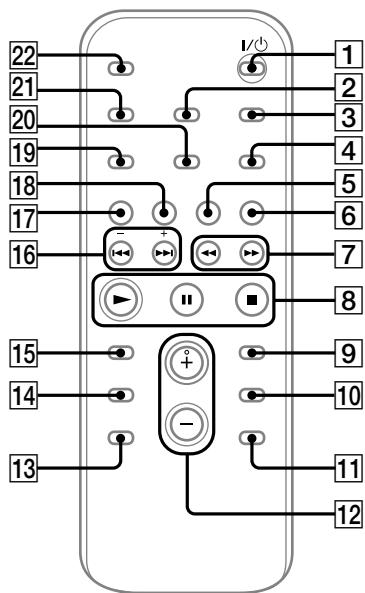
A - E
 ALBUM + **11** (11, 13, 18)
 ALBUM - **13** (11, 13, 18)
 CD **18** (10, 13, 19)
 CLEAR **15** (13)
 CLOCK/TIMER SELECT **2**
 (21, 22)
 CLOCK/TIMER SET **3** (9, 21,
 22)
 DISC SKIP **10** (11, 13)
 DISPLAY **21** (16, 23)
 ENTER **9** (9, 13, 14, 21, 22)
 EQ **14** (20)

F - Z

FM MODE **4** (16)
 FUNCTION **6** (10, 13, 14, 15,
 17, 19, 26, 29, 31)
 PLAY MODE **20** (11, 13)
 REPEAT **4** (12)
 SLEEP **22** (20)
 TAPE **17** (17, 19)
 TUNER BAND **5** (14, 15, 19)
 TUNER MEMORY **19** (14)
 TUNING MODE **20** (14, 15)
 VOLUME +/- **12** (21, 29)

BUTTON DESCRIPTIONS

I/**Ø** (power) **1** (8, 15, 21, 26)
◀◀/▶▶ (rewind/fast forward)
7 (11, 15, 17)
II (pause) **8** (11, 17)
■ (stop) **8** (11, 17, 18, 22)
▶ (play) **8** (11, 17)
 $-/+$ (tuning) **16** (14, 20)
◀◀/▶▶ (go back/go forward)
16 (9, 11, 21)



Setting the clock

Use buttons on the remote for the operation.

- 1 Press **I**/**Ø** to turn on the system.
- 2 Press **CLOCK/TIMER SET**.
- 3 Press **◀◀** or **▶▶** repeatedly to set the hour.
- 4 Press **ENTER**.
- 5 Press **◀◀** or **▶▶** repeatedly to set the minute.
- 6 Press **ENTER**.

The clock starts working.

To adjust the clock

- 1 Press **CLOCK/TIMER SET**.
- 2 Press **◀◀** or **▶▶** until "CLOCK SET?" appears, then press **ENTER**.
- 3 Do the same procedures as step 3 to 6 above.

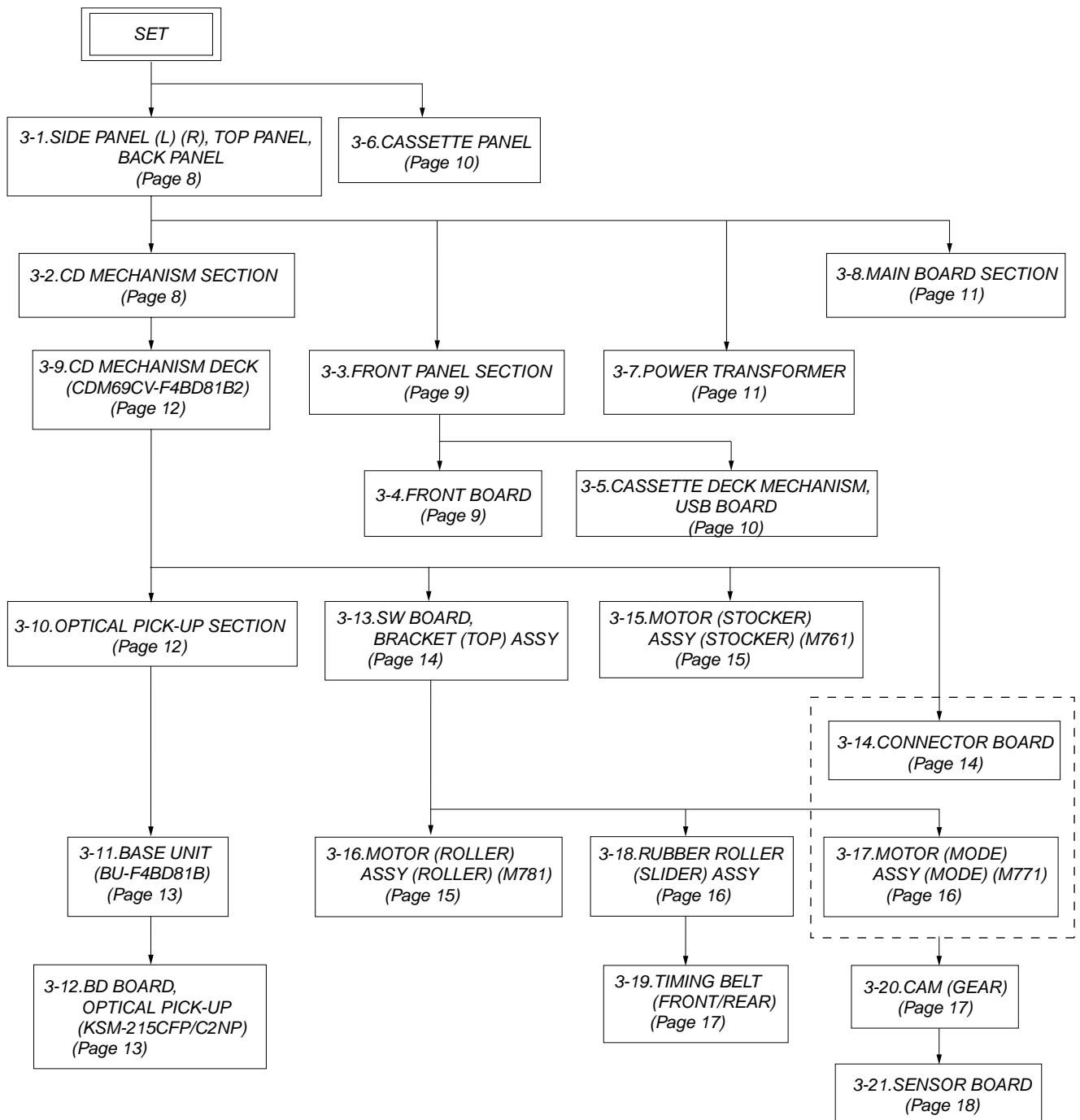
Notes

- The clock settings are canceled when you disconnect the power cord or if a power failure occurs.
- You cannot set the clock in Power Saving Mode (page 23).

SECTION 3

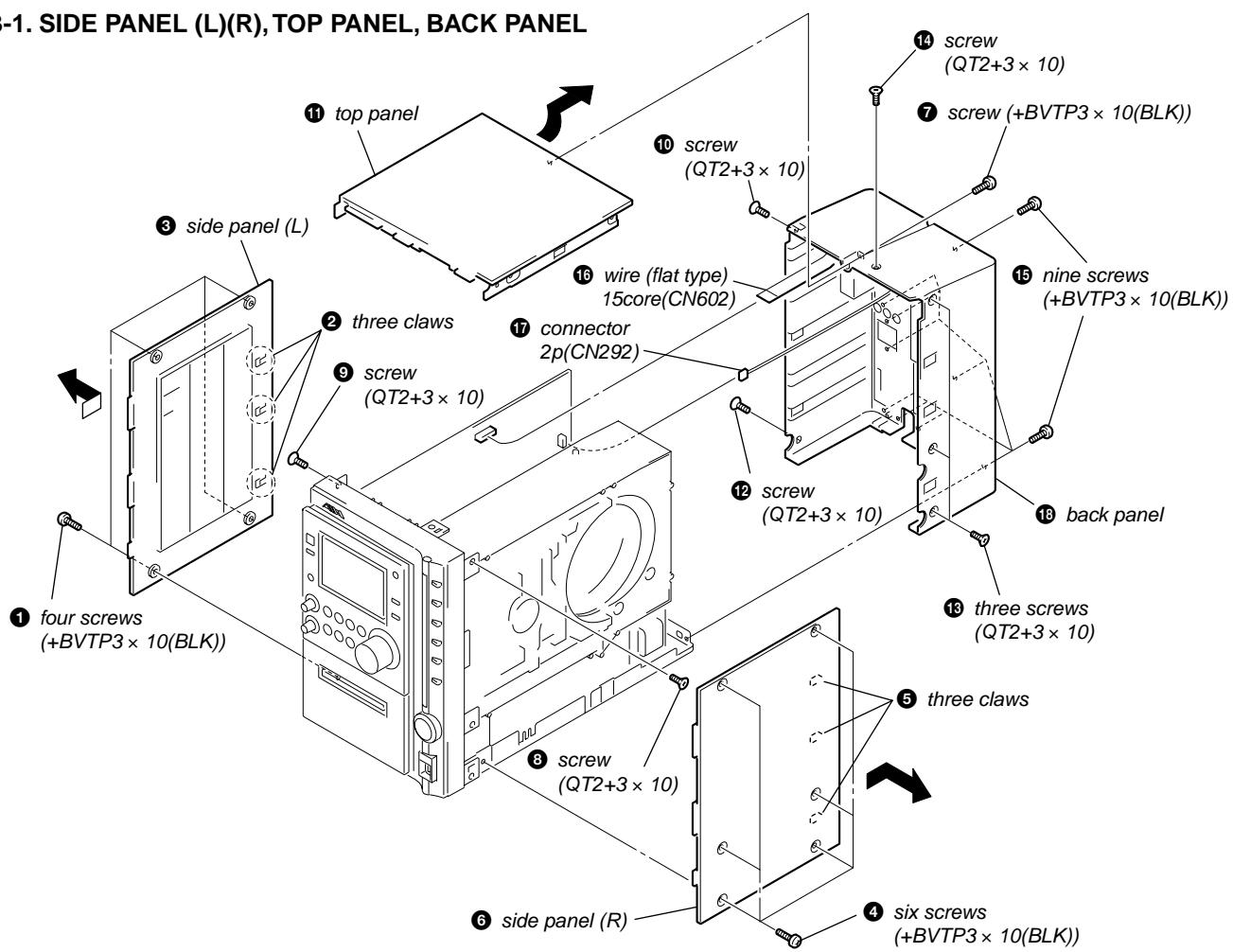
DISASSEMBLY

- This set can be disassembled in the order shown below.
- The dotted square with arrow (→) prompts you to move to the next job when all of the works within the dotted square (□) are completed.

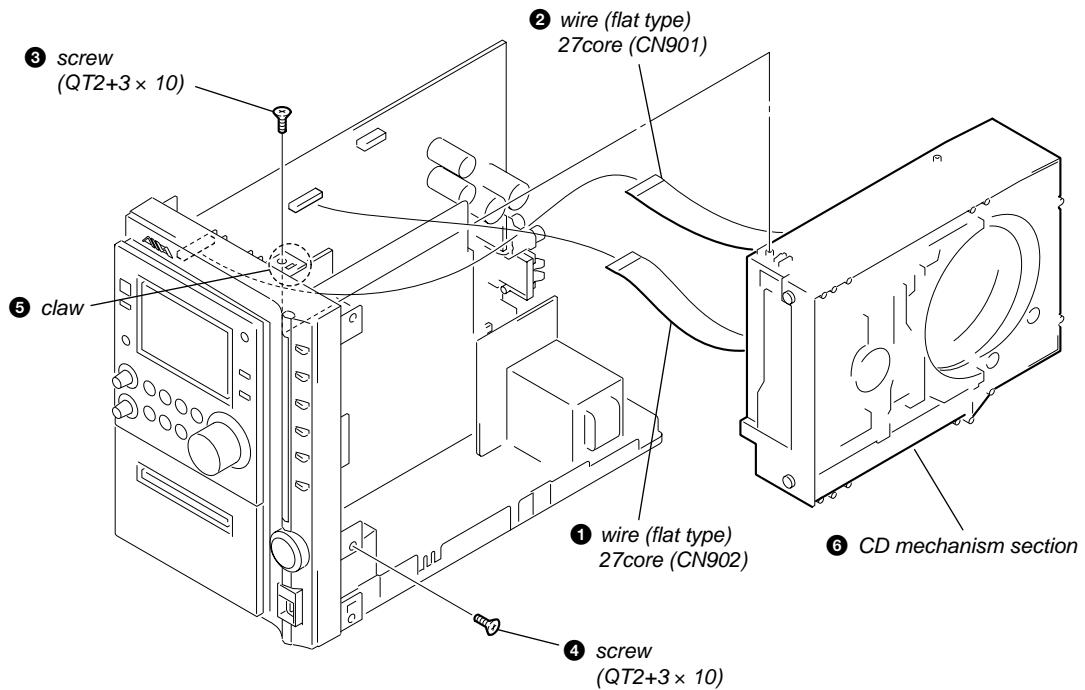


Note: Follow the disassembly procedure in the numerical order given.

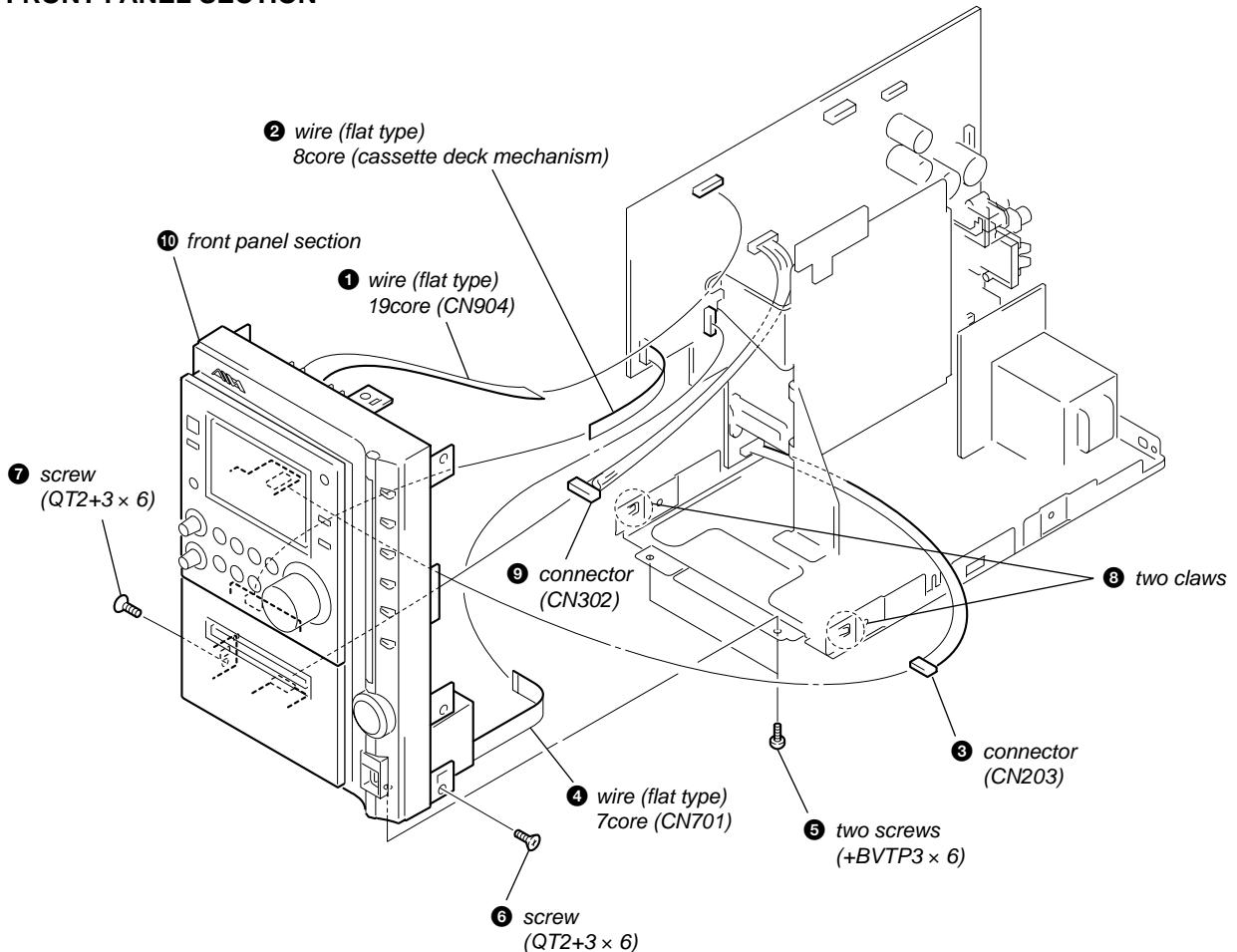
3-1. SIDE PANEL (L)(R), TOP PANEL, BACK PANEL



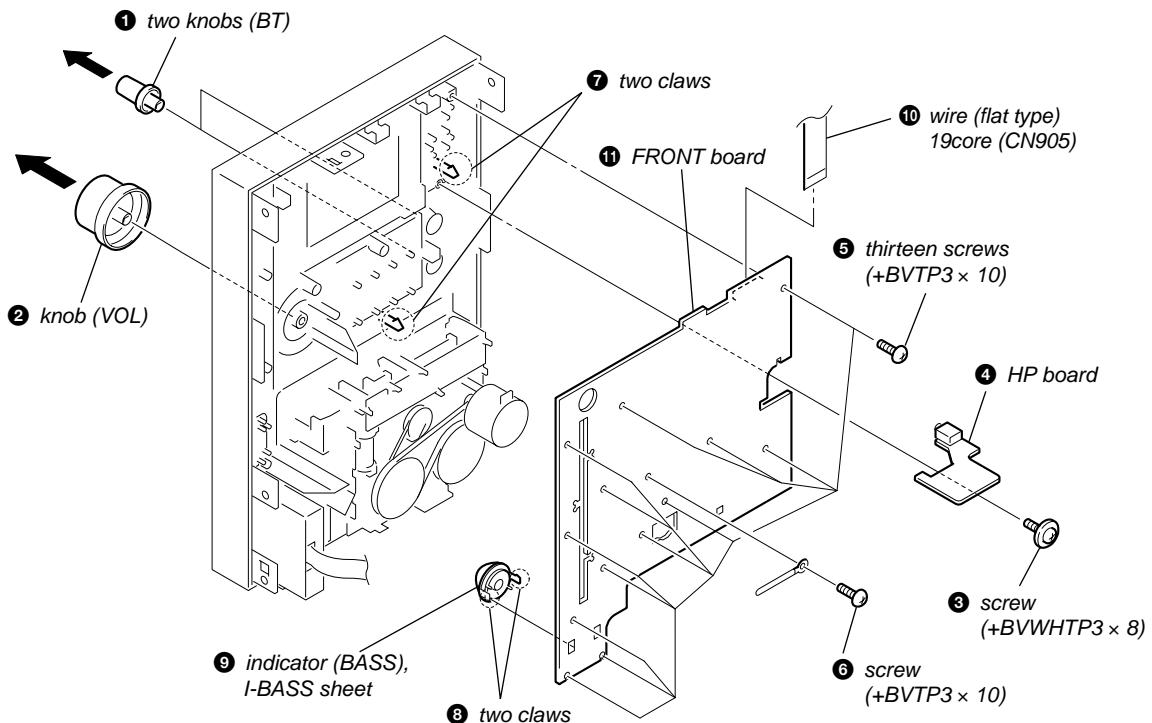
3-2. CD MECHANISM SECTION



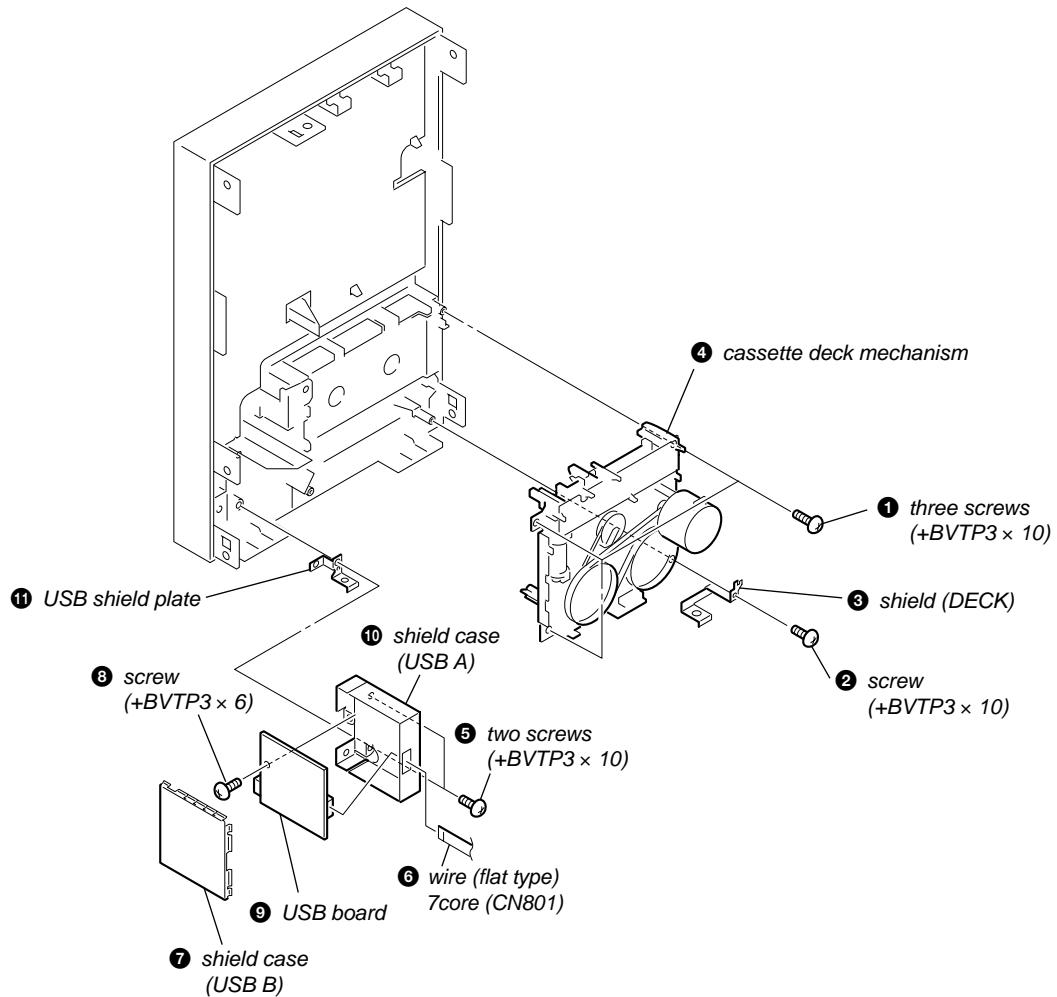
3-3. FRONT PANEL SECTION



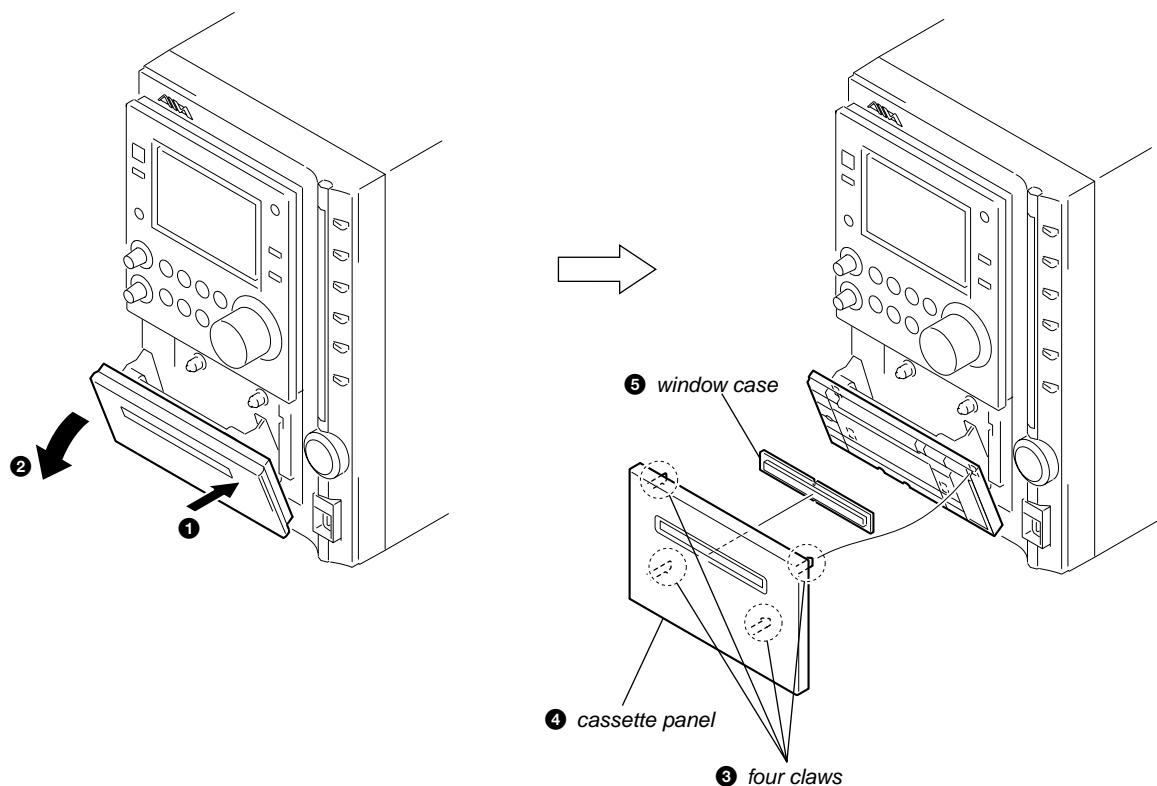
3-4. FRONT BOARD



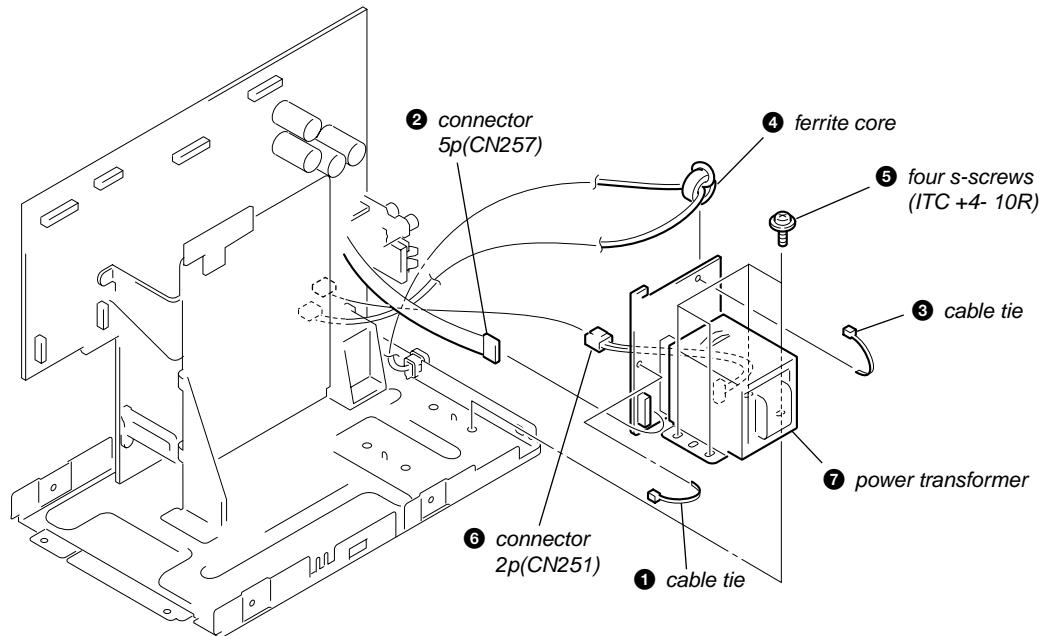
3-5. CASSETTE DECK MECHANISM, USB BOARD



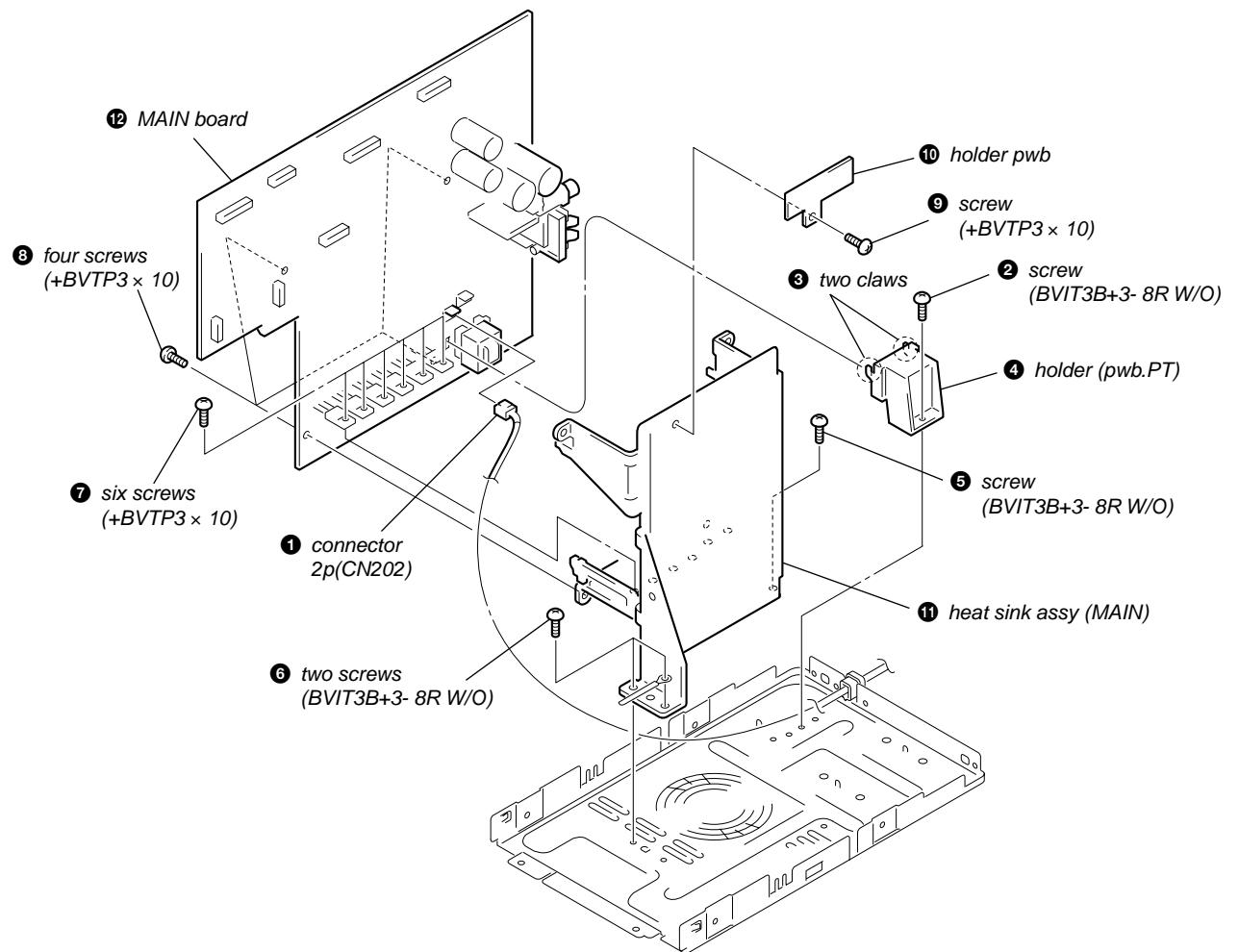
3-6. CASSETTE PANEL

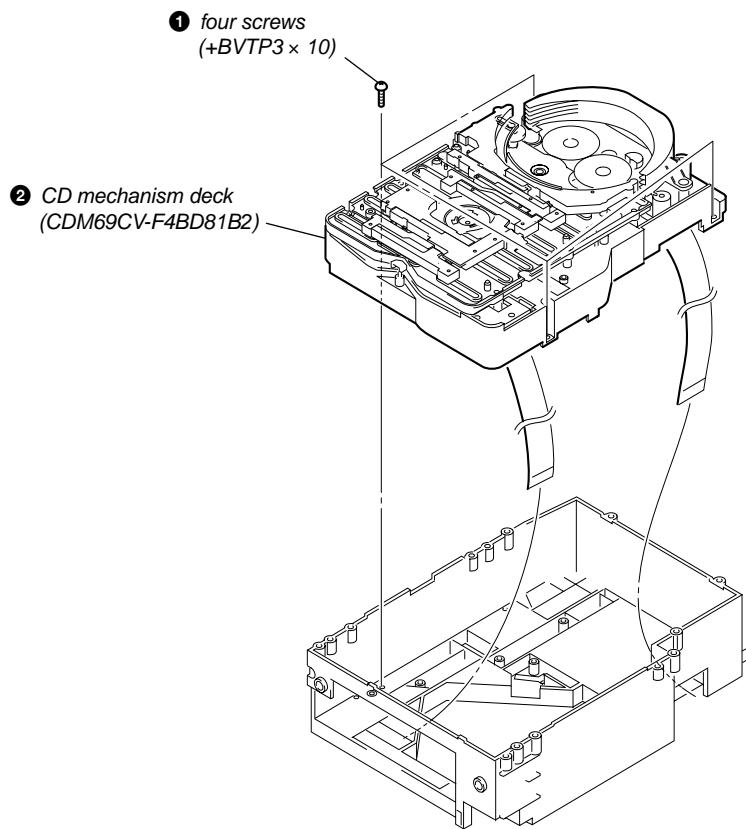
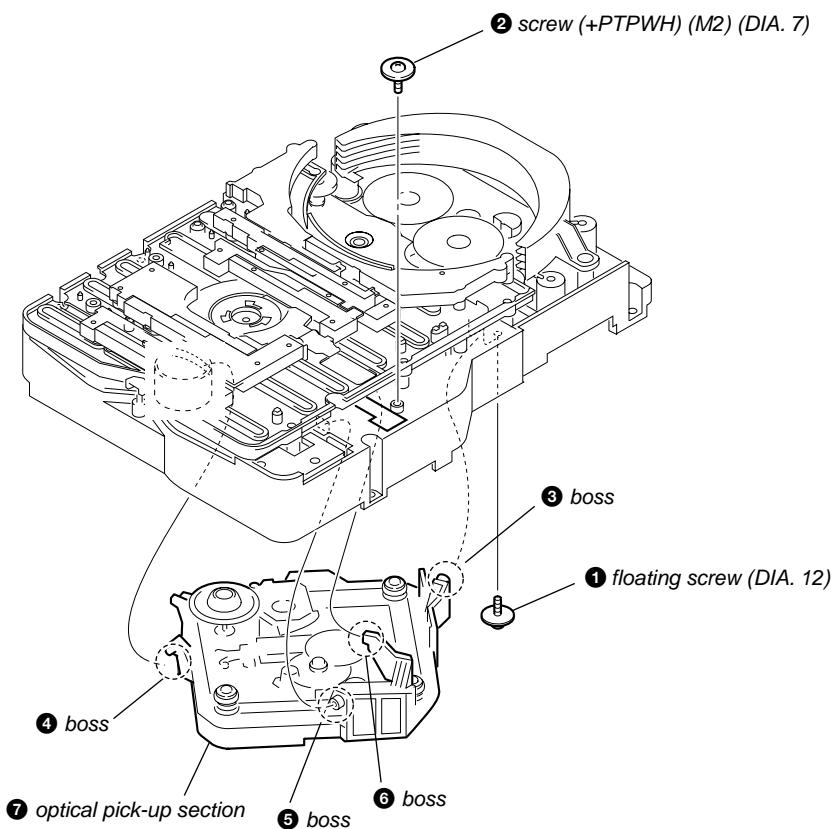


3-7. POWER TRANSFORMER

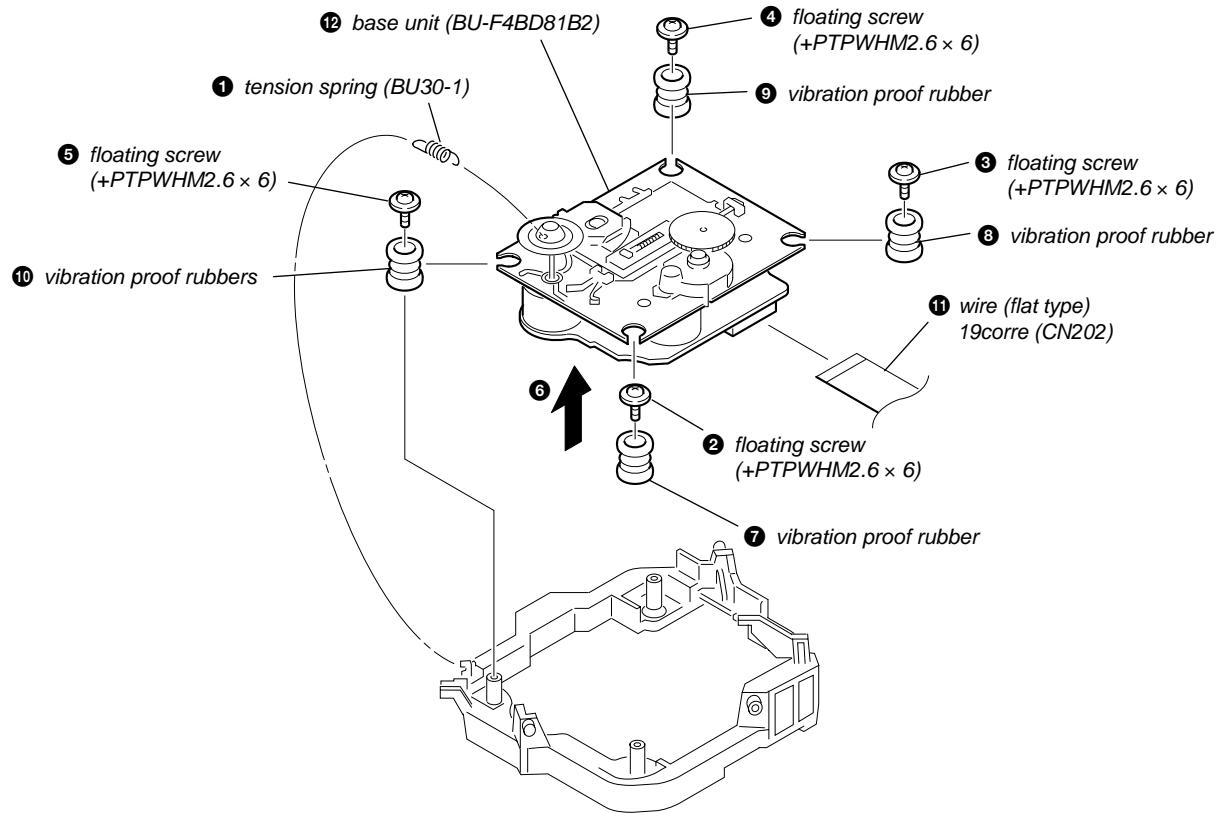


3-8. MAIN BOARD SECTION

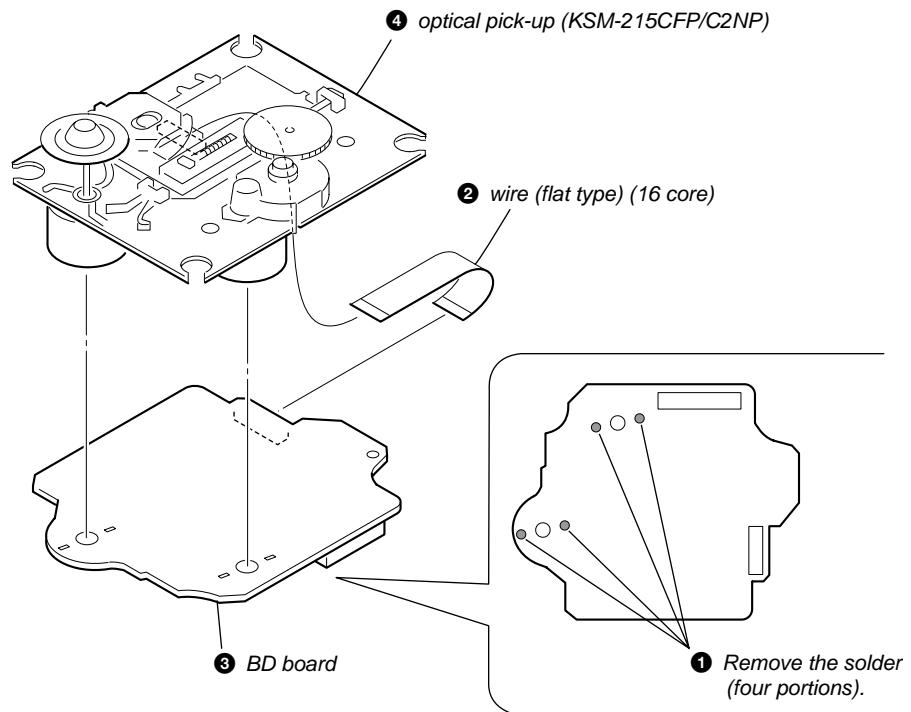


3-9. CD MECHANISM DECK (CDM69CV-F4BD81B2)**3-10. OPTICAL PICK-UP SECTION**

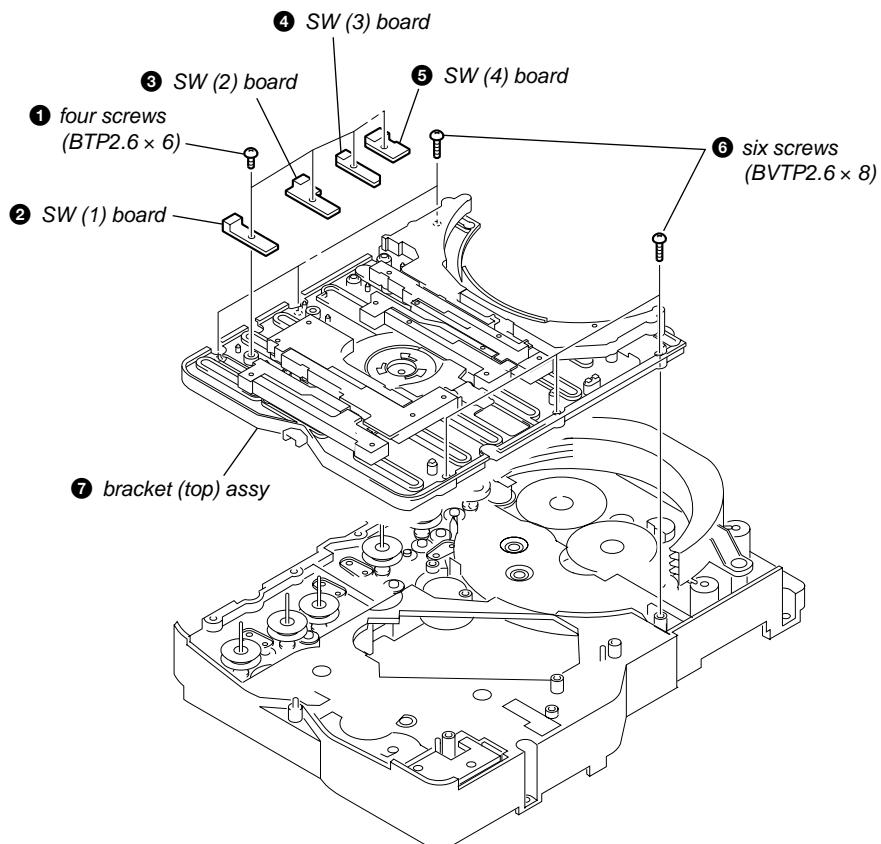
3-11. BASE UNIT (BU-F4BD81B2)



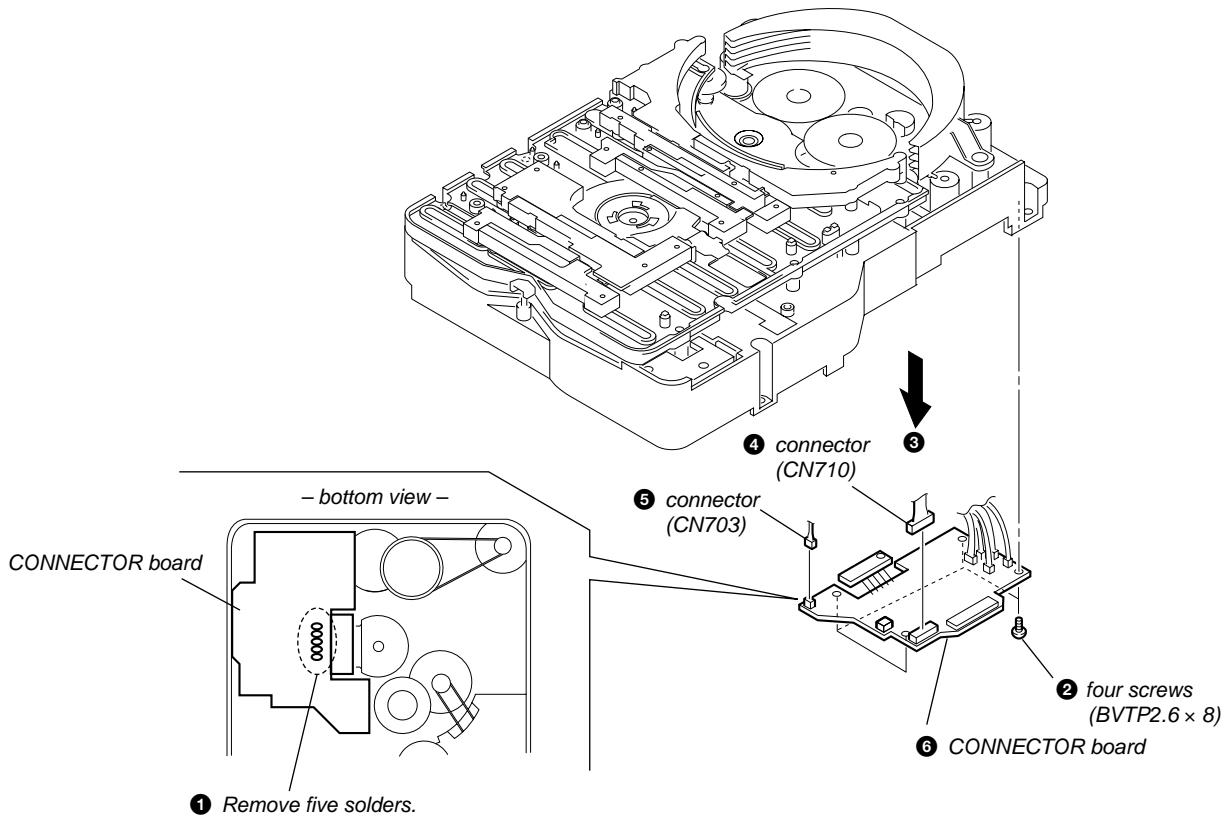
3-12. BD BOARD, OPTICAL PICK-UP (KSM-215CFP/C2NP)



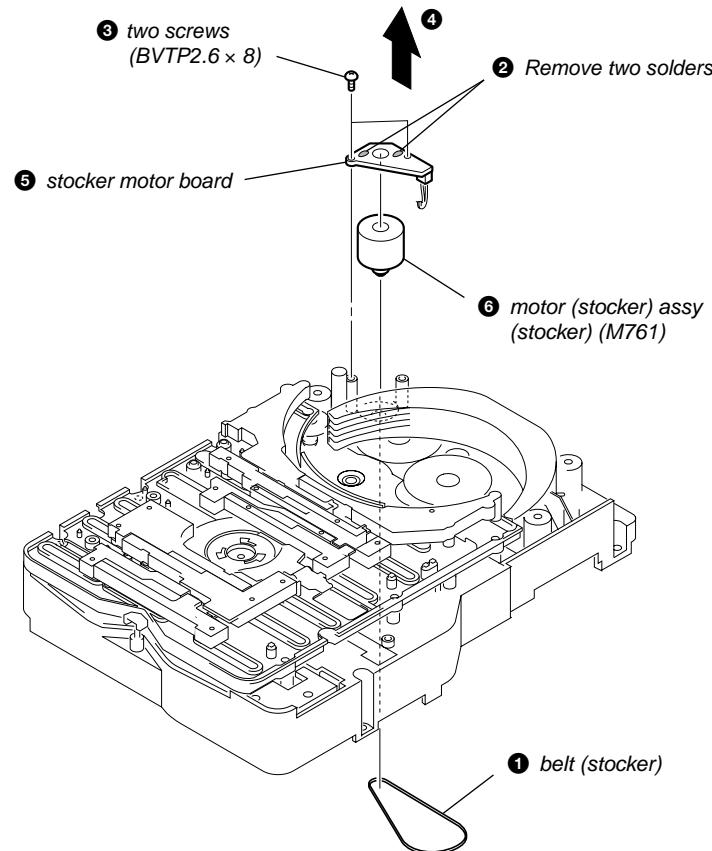
3-13. SW BOARD, BRACKET (TOP) ASSY



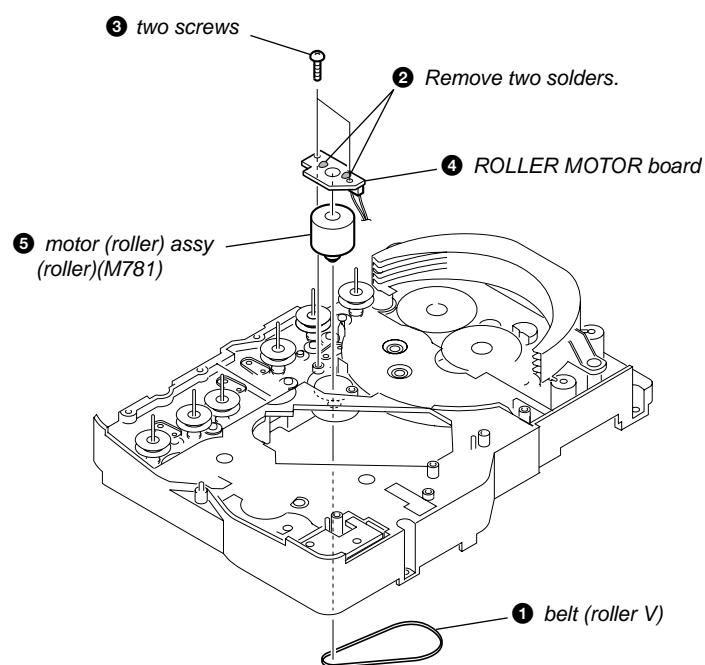
3-14. CONNECTOR BOARD



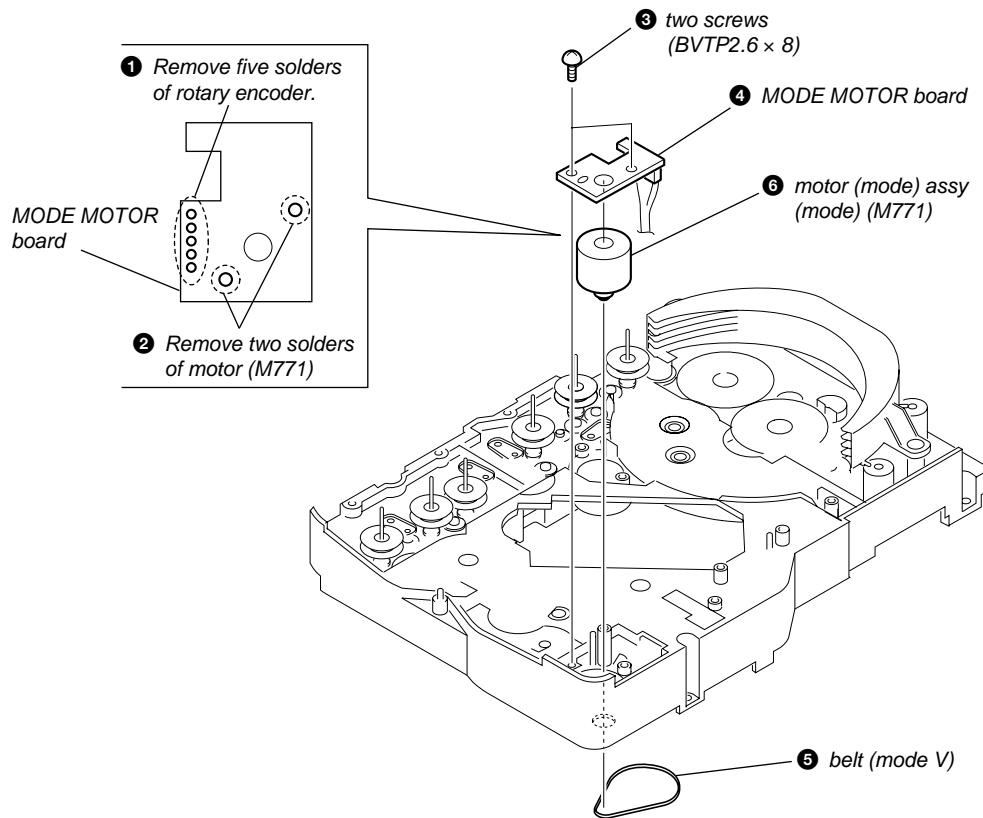
3-15. MOTOR (STOCKER) ASSY (STOCKER)(M761)



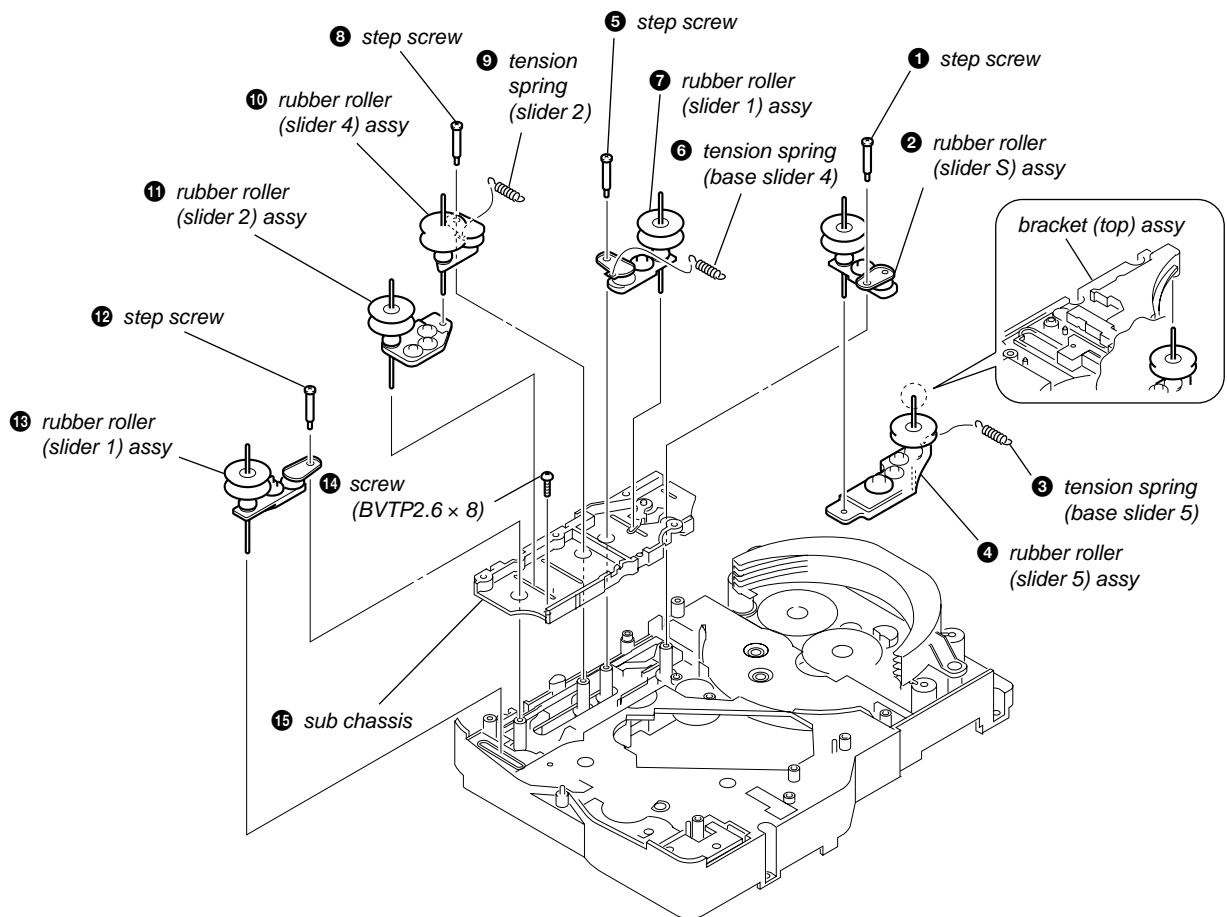
3-16. MOTOR (ROLLER) ASSY (ROLLER)(M781)



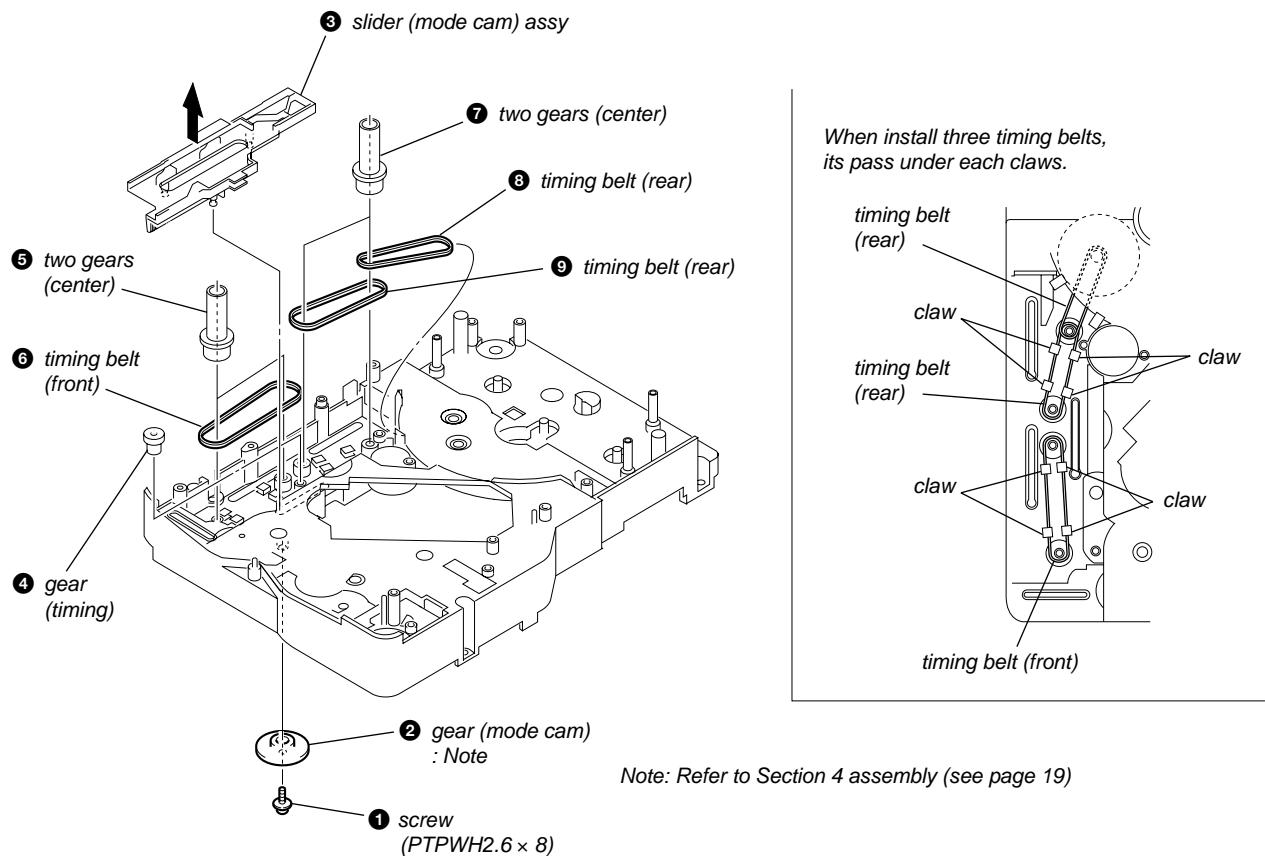
3-17. MOTOR (MODE) ASSY (MODE)(M771)



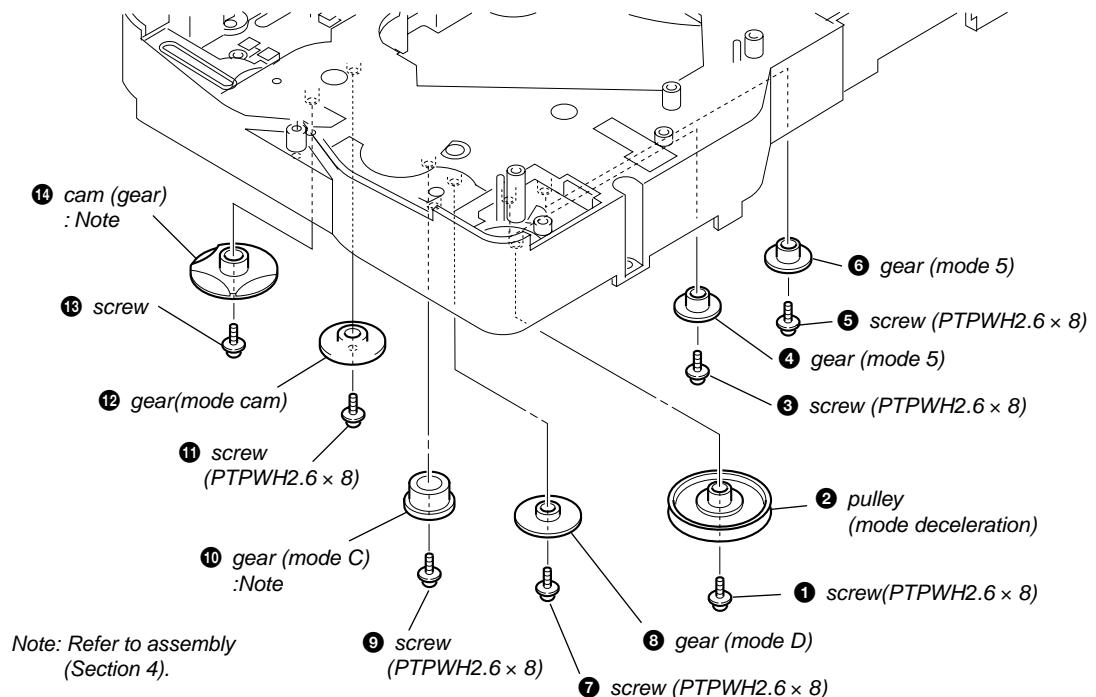
3-18. RUBBER ROLLER (SLIDER) ASSY



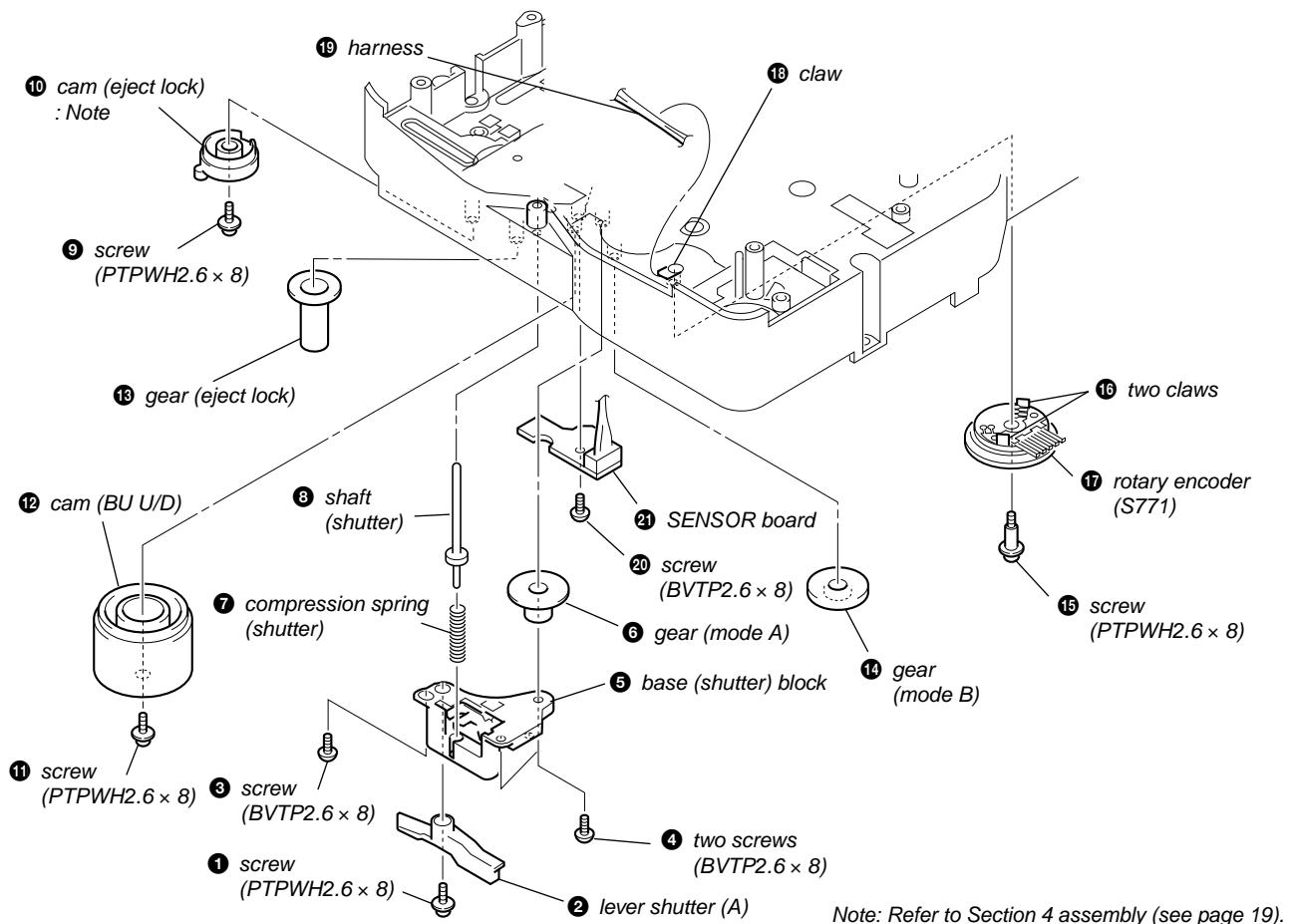
3-19. TIMING BELT (FRONT/REAR)



3-20. CAM (GEAR)



3-21. SENSOR BOARD

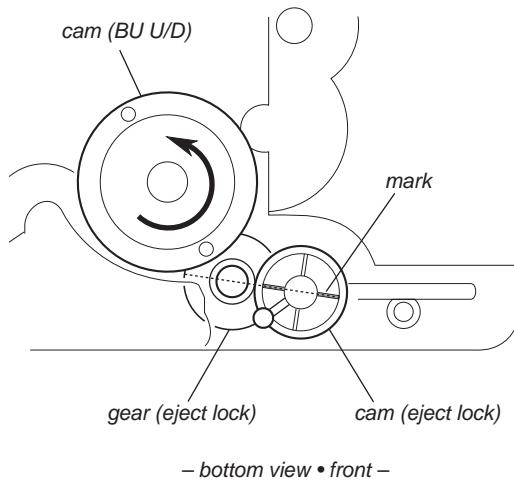


SECTION 4 ASSEMBLY

- This set can be assembled in the order shown below.

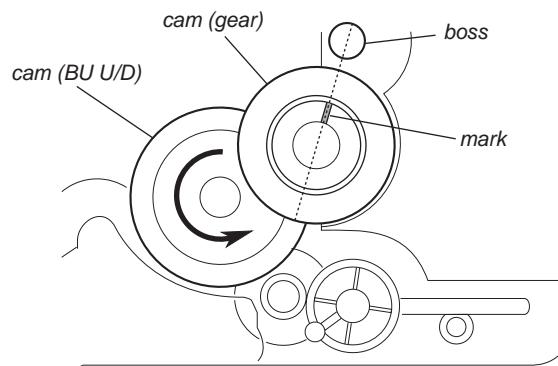
4-1. HOW TO INSTALL THE CAM (EJECT LOCK)

- ① Rotate the cam (BU U/D) fully in the direction of arrow.
- ② Engage the gear (eject lock) and the gear of the cam (eject lock) aligning the mark with the center of the gear (eject lock).



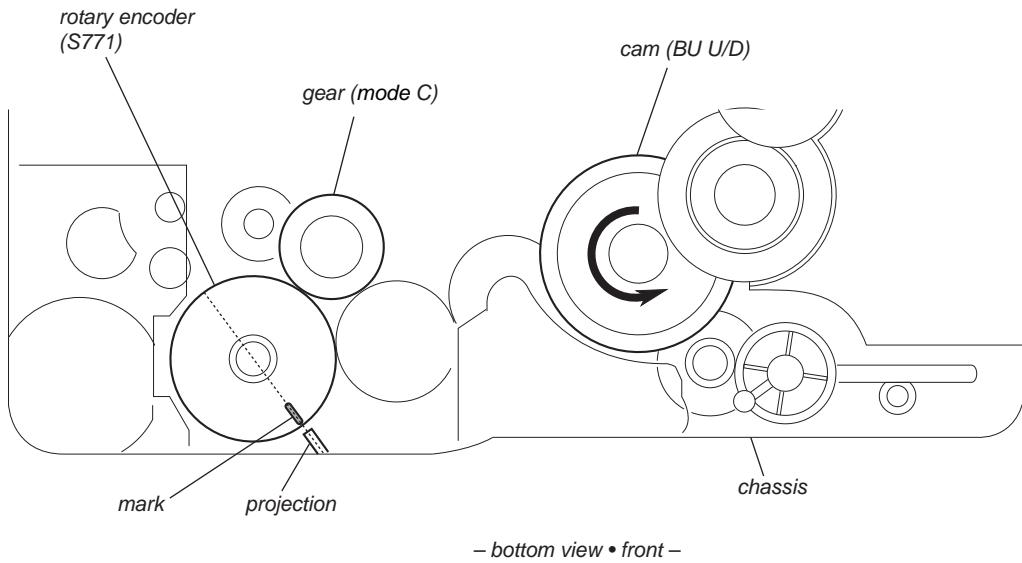
4-2. HOW TO INSTALL THE CAM (GEAR)

- ① Check that the cam (BU U/D) can not be rotated in the direction of arrow.
- ② Align the mark on the cam (gear) with the boss as shown in the figure and install the cam (gear).



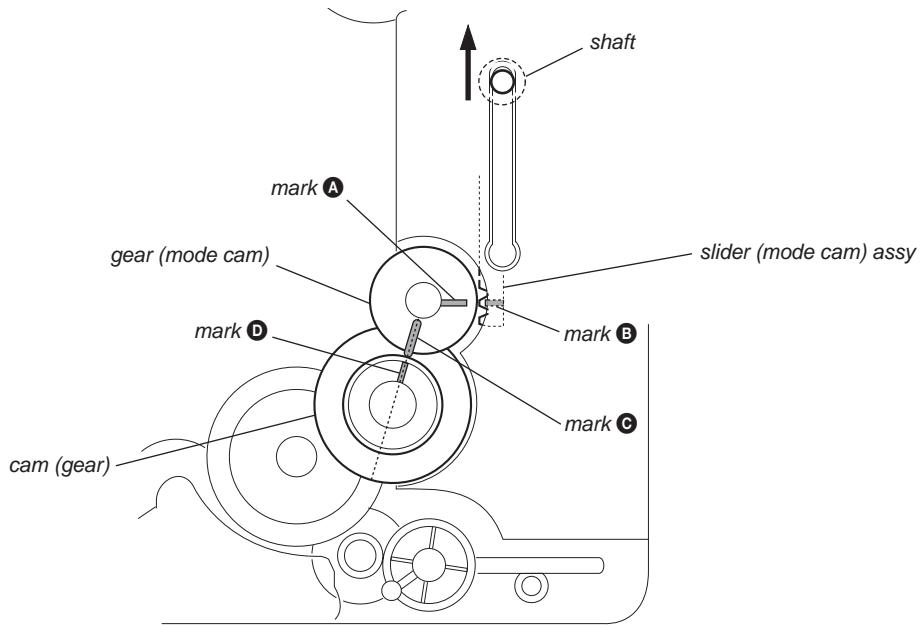
4-3. HOW TO INSTALL THE GEAR (MODE C)

- ① Align the mark on the rotary encoder (S771) with the projection of the assy.
- ② Check that the cam (BU U/D) can not be rotated in the direction of arrow.
- ③ Install the gear (mode C)

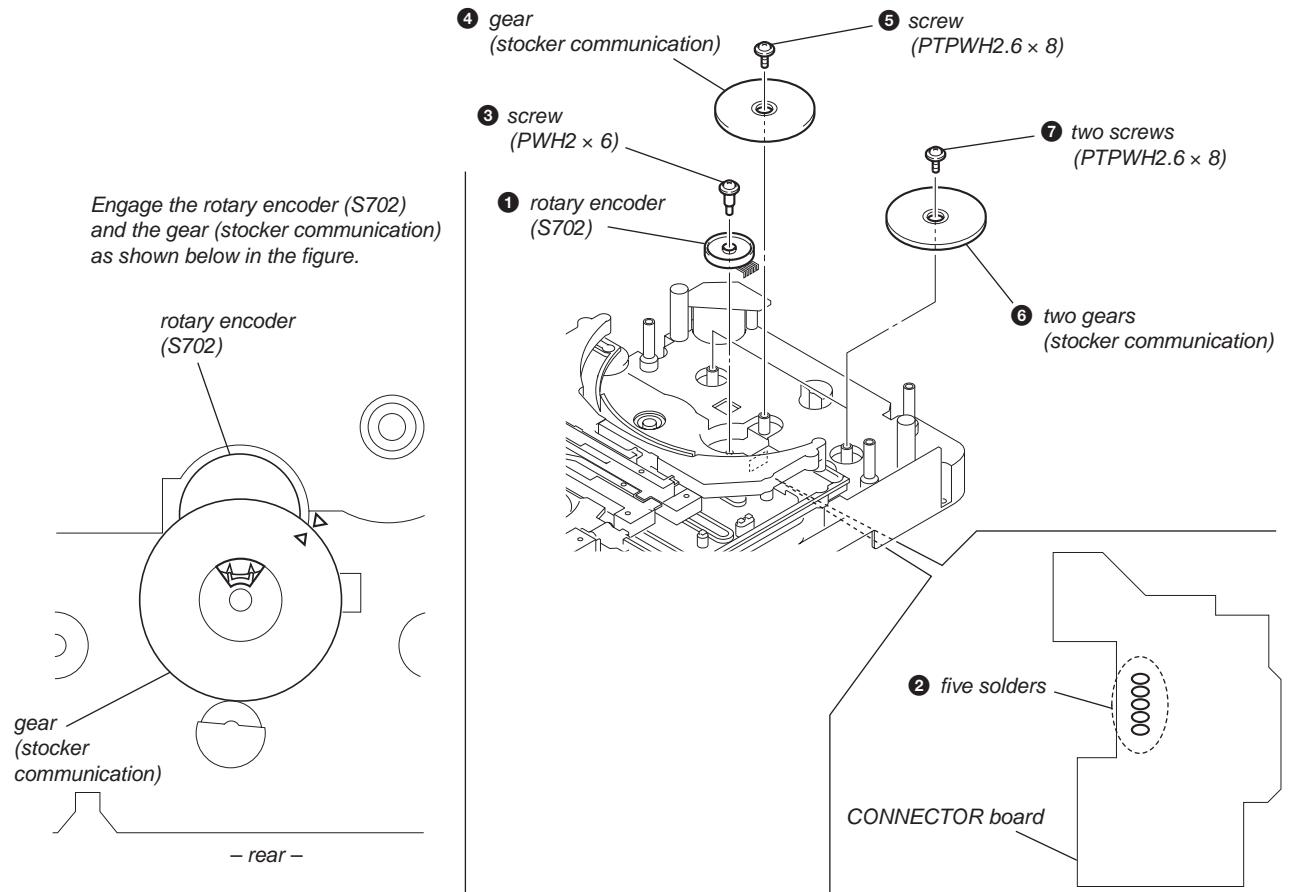


4-4. HOW TO INSTALL THE GEAR (MODE CAM)

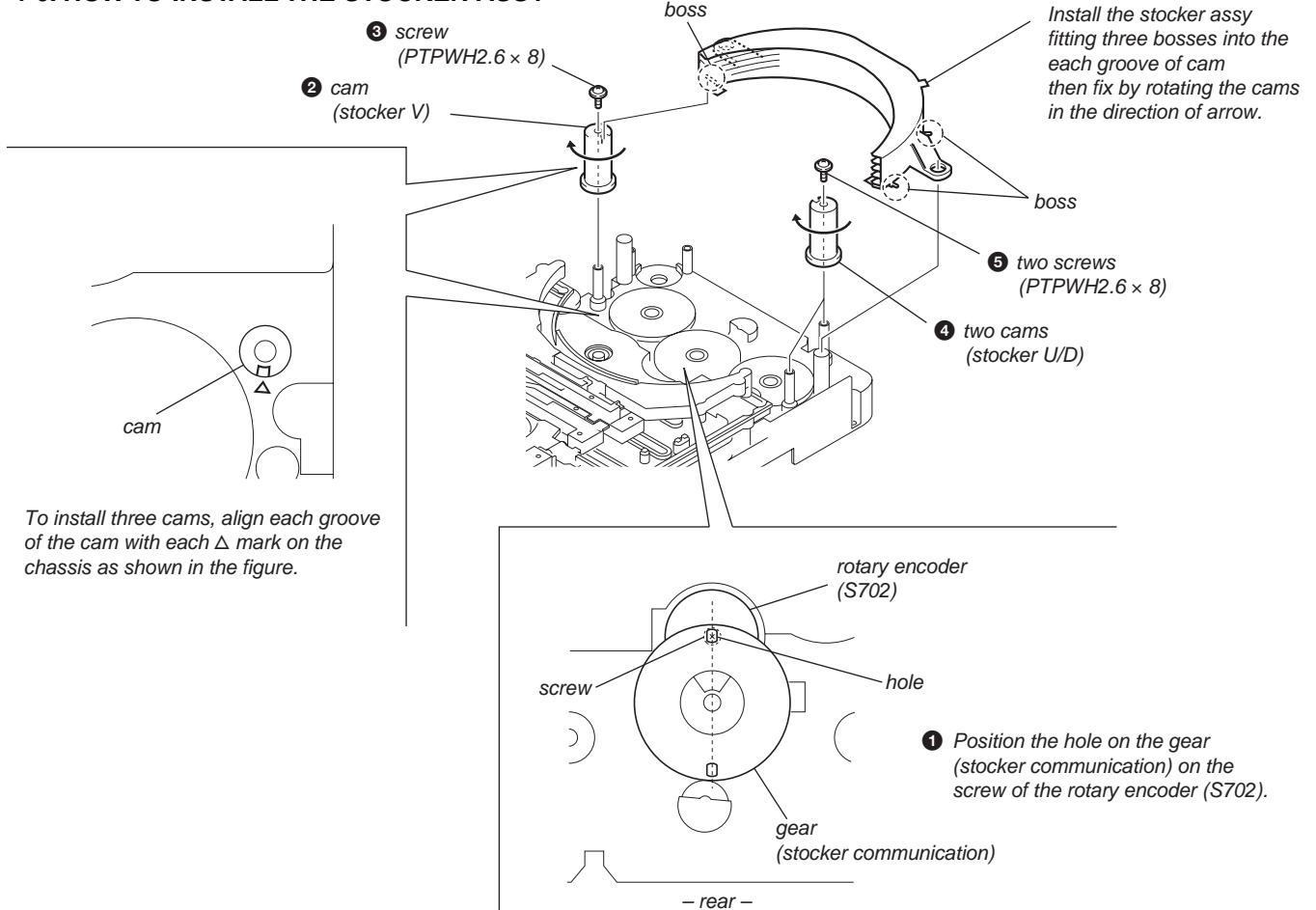
- ① Slide the shaft in the direction of arrow.
- ② Align mark **A** on the gear (mode cam) with mark **B** on the slider (mode cam) assy, then install the gear (mode cam).
- ③ Check that mark **C** on the gear (mode cam) is in alignment with mark **D** on the cam (gear).



4-5. HOW TO INSTALL THE ROTARY ENCODER (S702), GEAR (STOCKER COMMUNICATION)



4-6. HOW TO INSTALL THE STOCKER ASSY



SECTION 5

TEST MODE

[Cold Reset]

- * The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Press the **[I/O]** button to turn off the main power.
2. While depressing the **[i-Bass]** button, press the **[I/O]** button.
3. The fluorescent indicator tube does not display any message and the set is reset.

[Version Display Mode]

- * The version of the microcomputer is displayed.

Procedure:

1. Press the **[I/O]** button to turn the set on.
2. To enter the test mode, press three buttons **[FUNCTION]**, **[DISPLAY]** and **[i-Bass]** simultaneously. The version of the microcomputer is displayed.

[LCD Check]

- * All fluorescent segments are tested.

Procedure:

1. Press the **[I/O]** button to the set on.
2. While depressing the **[FUNCTION]** button, Press the **[DISPLAY]** button.
3. The message “CD TEST” is displayed, the initialization is performed.

Then all segments of the fluorescent indicator tube are turned on.

[CD Ship Mode]

- * This mode moves the optical pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press the **[I/O]** button to turn the set on.
2. Set the FUNCTION to CD.
3. Press two buttons of **[▲CD]** and **[▶]** simultaneously for more than two seconds.
4. After a message “MECHA LOCK” is displayed on the fluorescent indicator tube, the CD ship mode is set and the power is turned off.

[Disc Tray Lock]

The disc tray lock function for the antitheft of an demonstration disc in the store is equipped.

Setting Procedure :

1. Press the **[I/O]** button to turn the set on.
2. Press two buttons of **[■]** and **[▲CD]** simultaneously for five seconds.
3. The message “LOCKED” is displayed and the tray is locked.

Releasing Procedure :

1. Press two buttons of **[■]** and **[▲CD]** simultaneously for five seconds again.
2. The message “UNLOCKED” is displayed and the tray is unlocked.

Note : When “LOCKED” is displayed, the tray lock is not released by turning power on/off with the **[I/O]** button.

[AMP Test]

- * This mode is used to check the function of the amplifier.

Procedure:

1. Press the **[I/O]** button to turn the set on.
2. While depressing the **[■]** button, Press the **[DISPLAY]** button.
3. The message “Volume MAX” is displayed, when the **[VOLUME]** knob is rotated clockwise. The message “Volume MIN” is displayed, when the **[VOLUME]** knob is rotated counterclockwise.
4. Each time the **[BASS]** or **[TREBLE]** knob is turned, the message “EQ MAX”, “EQ MIN” or “EQ FLAT” is displayed in this order.

[AM Channel Step 9 kHz/10kHz Selection Mode]

- * Either the 9 kHz step or 10 kHz step can be selected for the AM channel step. (EXCEPT AEP,UK)

Procedure:

1. Set the FUNCTION to AM.
2. While depressing the **[▶]** button, press the **[I/O]** button.
3. The channel step is changed over.

[CD Test Mode]

- * This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the pickup.

Procedure:

1. Press the **[I/O]** button to turn the set on.
2. While depressing the **[CD ▶II]** button, Press the **[DIRECTION]** button. The message “CD TEST” is displayed.
3. With the CD in stop status, press the **[▶]** button to move the pickup to outside track, or press the **[◀]** button to inside track.
4. When press the **[CD ▶II]** button, normal playback is performed.
5. Each time the **[CD ▶II]** button is pressed during normal playback, the tracking servo is switched on or off.
6. To exit this mode, either change to other functions or extract an AC plug.

[CD Repeat 5 Times Limit Release Mode]

Procedure:

1. Press the **[I/O]** button to turn the set on.
2. Select the FUNCTION to CD.
3. Press two buttons of **[▶]** and **[DIRECTION]** simultaneously.
4. The repeat all mark blinks and then repeat 5 times limit is released.

SECTION 6 MECHANICAL ADJUSTMENTS

• TAPE MECHANISM DECK SECTION

Precaution

1. Clean the following parts with a denatured alcohol-moistened swab:

record/playback heads	pinch rollers
erase head	rubber belts
capstan	idle
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	2.94 – 7.84 mN • m (30 to 79 g • cm) (0.42 – 1.11 oz • inch)
FWD back tension	CQ-102C	0.15 – 0.59 mN • m 2 to 6 g • cm (0.03 – 0.08 oz • inch)
REV	CQ-102RC	2.94 – 7.84 mN • m (30 to 79 g • cm) (0.42 – 1.11 oz • inch)
REV back tension	CQ-102RC	2.94 – 7.84 mN • m (30 to 79 g • cm) (0.42 – 1.11 oz • inch)
FF/REV	CQ-201B	6.86 – 17.64 mN • m (70 to 179 g • cm) (0.98 – 2.49 oz • inch)
FWD tension	CQ-403A	0.98 mN • m (10 • cm or more) (0.14 oz • inch or more)
REV tension	CQ-403R	0.98 mN • m (10 • cm or more) (0.14 oz • inch or more)

SECTION 7 ELECTRICAL ADJUSTMENTS

DECK SECTION

0 dB = 0.775 V

Precaution

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjusted.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.

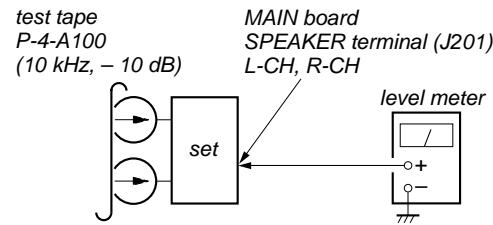
• Test Tape

Tape	Signal	Used for
P-4-A100	10 kHz, -10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Check

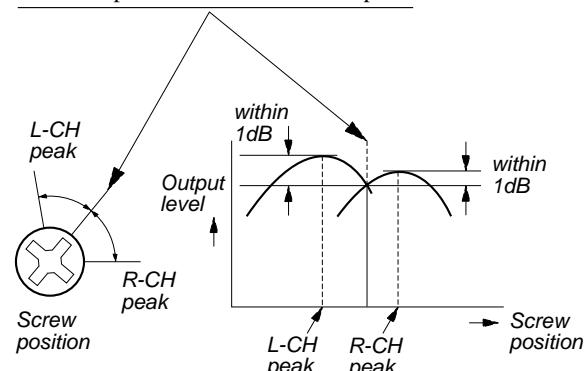
Record/Playback Head Azimuth Adjustment

Procedure:

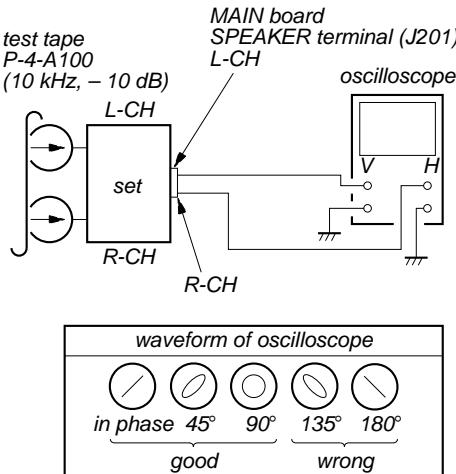
1. Mode: Playback



2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.

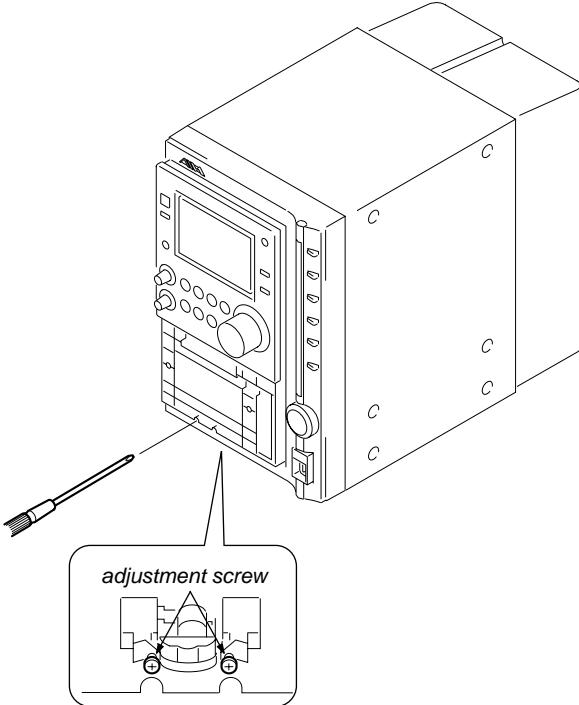


3. Mode: Playback



4. After the adjustments, apply suitable locking compound to the parts adjusted.

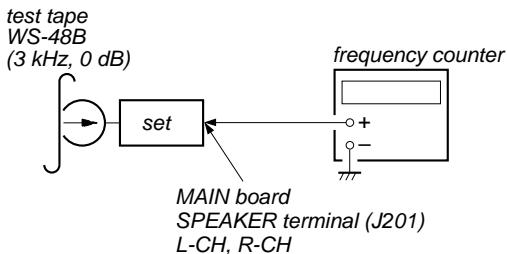
Adjustment Location: Record/Playback/Erase Head



Note: Refer to "3-6. Cassette Panel" (see page 10)

Tape Speed Check

Mode: Playback



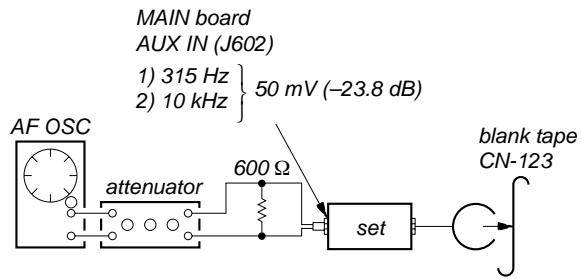
1. Insert the WS-48B into the deck.
2. Press the TAPE button on the deck.
3. Confirm that the frequency counter reads $3,000 \pm 90$ Hz.

Sample value of Wow and Flutter: 0.3% or less W.RMS (JIS)
(WS-48B)

Record Bias Adjustment

Procedure:

1. Record mode

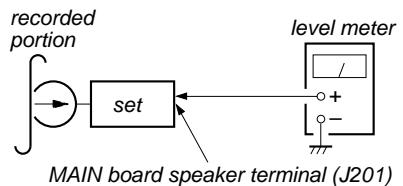


2. Mode: Playback

i-Bass OFF

BASS 0

TREBLE 0



3. Confirm playback the signal recorded in step 1 become adjustment level as follows.

Adjustment level: Playback output of 315 Hz to playback output of 10 kHz: 0 ± 1.0 dB (0 ± 4.5 mV).

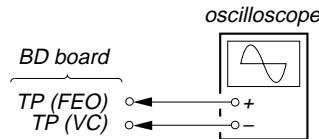
CD SECTION

Note:

1. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
2. Use an oscilloscope with more than $10M\Omega$ impedance.
3. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S-curve Check

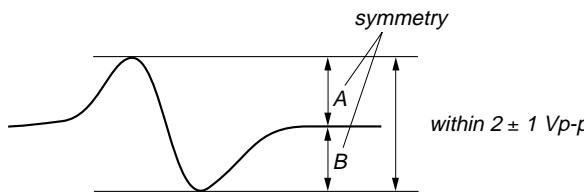
Connection:



Procedure:

1. Connect an oscilloscope to test point TP (FEO) and TP (VC) on the BD board.
2. While depressing the **CD ►II** button, insert an AC plug.
3. Put the disc (YEDS-18) in and press the **█** button and actuate the focus search. (actuate the focus search when disc table is moving in and out)
4. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 2 ± 1 Vp-p.

S-curve waveform



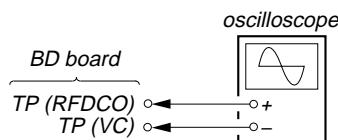
Note:

- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
- Take sweep time as long as possible and light up the brightness to obtain best waveform.

Checking Location: BD board (Conductor Side)

RFDC Level Check

Connection:

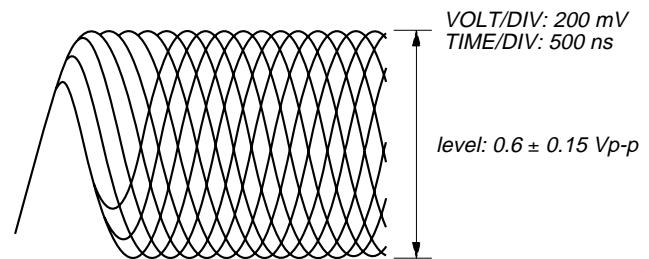


Procedure:

1. Connect an oscilloscope to test point (RFDCO) and TP (VC) on the BD board.
2. Turn the power on.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Confirm that oscilloscope waveform is clear and check RFDC signal level is correct or not.

Note: A clear RFDC signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.

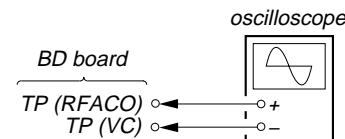
RFDC signal waveform



Checking Location: BD board (Conductor side)

RFAC Level Check

Connection:

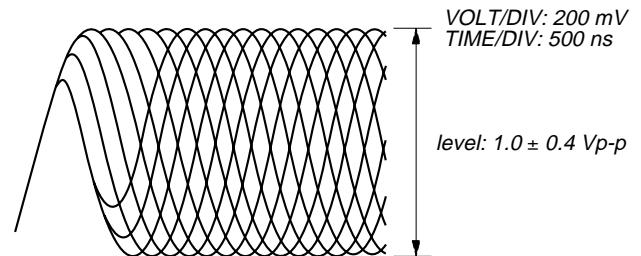


Procedure:

1. Connect an oscilloscope to test point TP (RFACO) and TP (VC) on the BD board.
2. Turn the power on.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Confirm that oscilloscope waveform is clear and check RFAC signal level is correct or not.

Note: A clear RFAC signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.

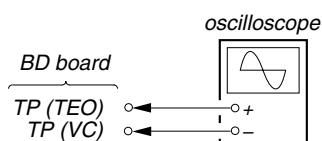
RFAC signal waveform



Checking Location: BD board (Conductor Side)

E-F Balance Adjustment

Connection:

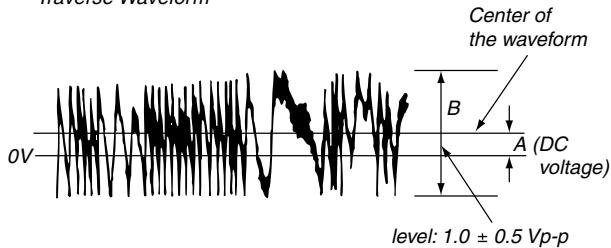


(CD) button. (The tracking servo and the

Procedure:

1. Connect an oscilloscope to test point TP (TEO) and TP (VC) on the BD board.
2. AC is put in pushing **[CD ▶II]** button to enter the CD test mode.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Press the **[CD ▶II]** button. If it plays, press the **[CD ▶II]** button again. (The tracking servo and the sledding servo are turned OFF)
5. Check the level B of the oscilloscope's waveform and the A (DC voltage) of the center of the Traverse waveform. Confirm the following:
 $A/B \times 100 = \text{less than } \pm 10\%$

Traverse Waveform

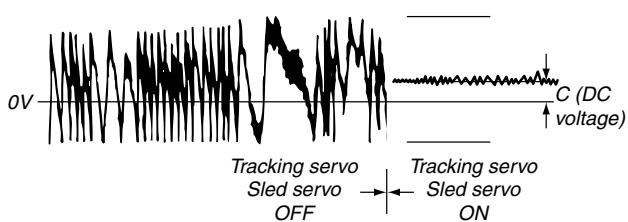


6. Press the **[CD ▶II]** button. (The tracking servo and sledding servo are turned ON)
 Rotate RV101 on BD board and adjust the C (DC voltage) is almost equal to the A (DC voltage) in step 4.
7. To exit from this mode, turn the power off.

Notes:

- Always move the optical pick-up to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
- Do not run the sled motor excessively, otherwise the gear can be chipped.

Traverse Waveform

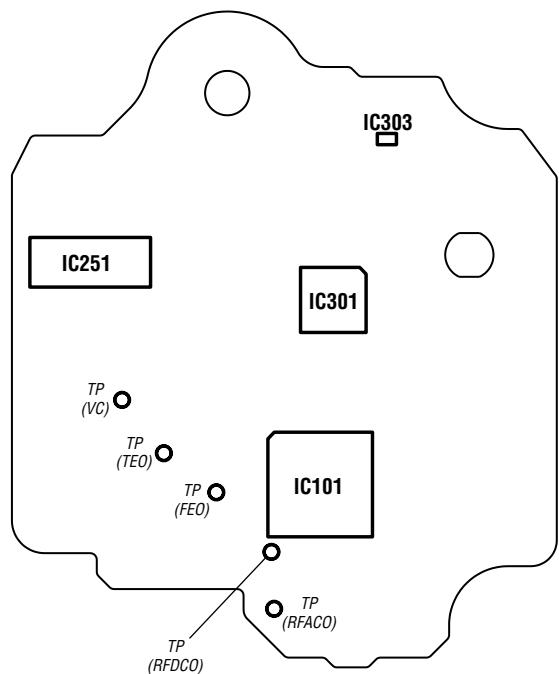


Checking Location: BD board (Conductor Side)

Checking Location:

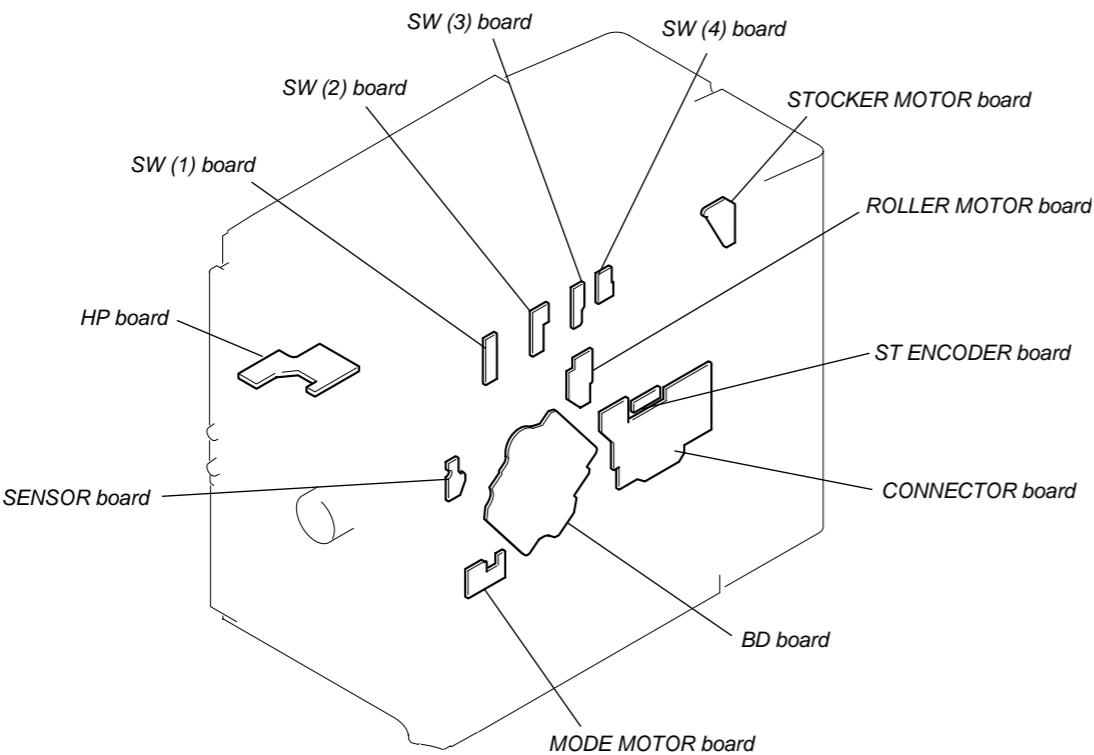
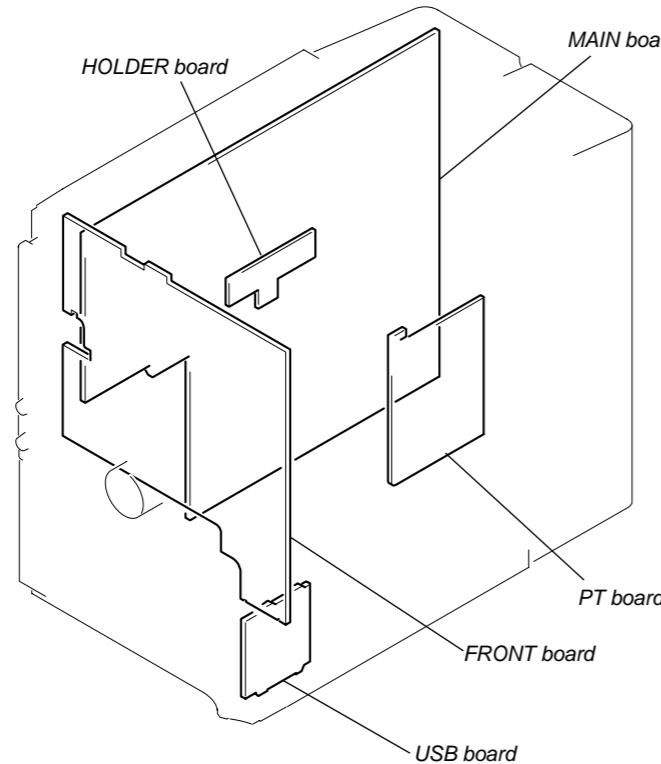
– BD BOARD (Conductor Side) –

【BD BOARD】
(CONDUCTOR SIDE)



SECTION 8 DIAGRAMS

• Circuit Boards Location



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For schematic diagrams.

Note:

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$ 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
 - * : Impossible to measure
 - △ : internal component.
 - : nonflammable resistor.
 - : fusible resistor.
 - : panel designation.
- **B+ Line.**
- **B- Line.**

Note:

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.

no mark : Power on

- Voltages are taken with a VOM (Input impedance 10 $\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.

- Waveforms are taken with a oscilloscope.

Voltage variations may be noted due to normal production tolerances.

- Circled numbers refer to waveforms.

- Signal path.

- ⇒ : TUNER
- ⇒ : CD
- ⇒ : AUX
- ⇒ : PB (TAPE)
- ⇒ : REC (TAPE)
- ⇒ : USB

- Abbreviation

CND : Canadian model
E51 : Chilean and Peruvian model
KR : Korean model
SP : Singapore model

For printed wiring boards.

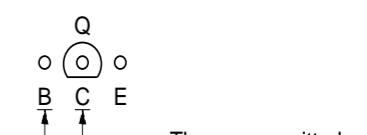
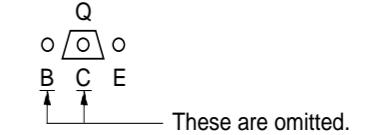
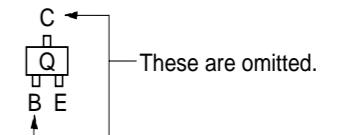
Note:

- ○ : parts extracted from the component side.
- — : parts extracted from the conductor side.
- △ : internal component.
- ■ : Pattern from the side which enables seeing.

Caution:

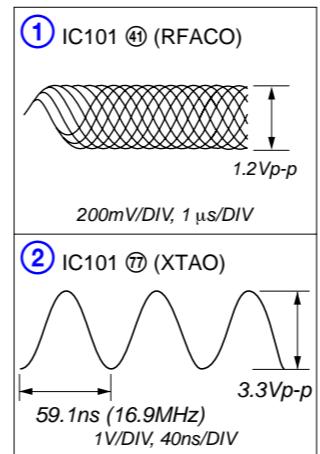
Pattern face side: Parts on the pattern face side seen from (Conductor Side) the pattern face are indicated.
Parts face side: Parts on the parts face side seen from (Component Side) the parts face are indicated.

• Indication of transistor

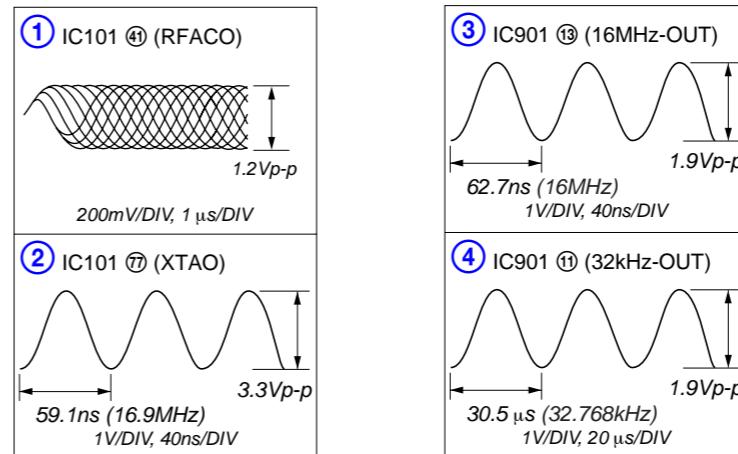


• Waveforms

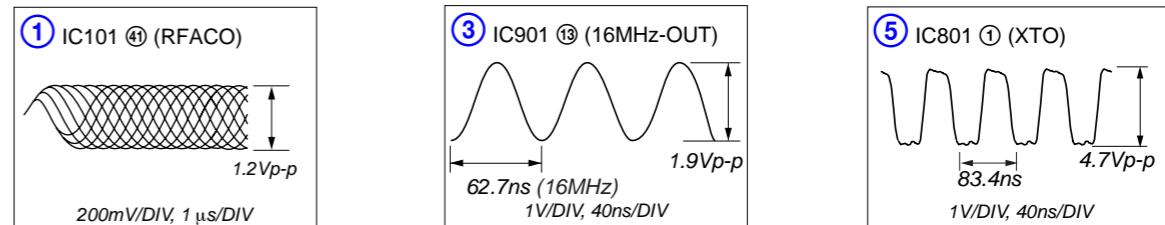
— BD Board —



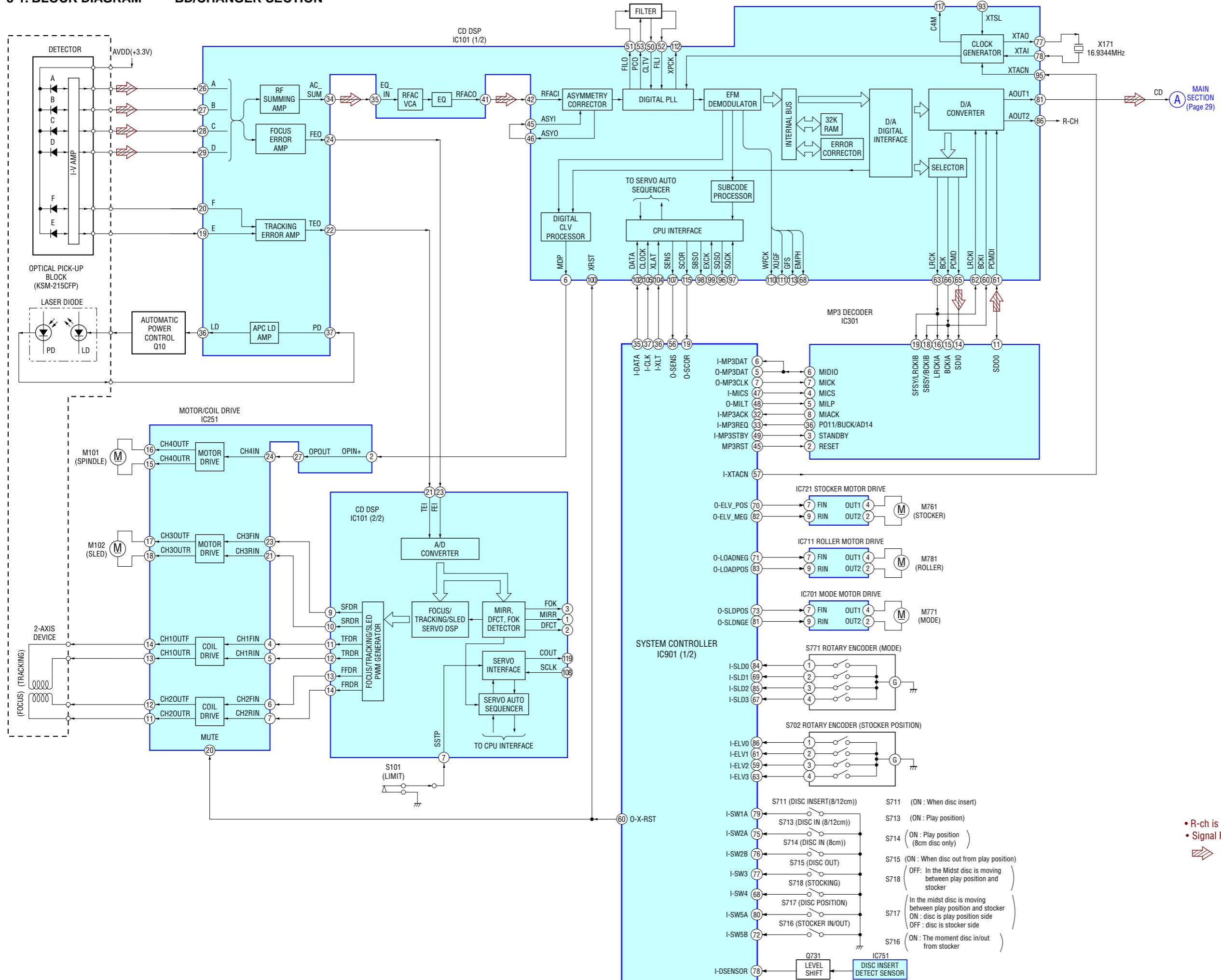
— MAIN Board —



— USB Board —



8-1. BLOCK DIAGRAM — BD/CHANGER SECTION —

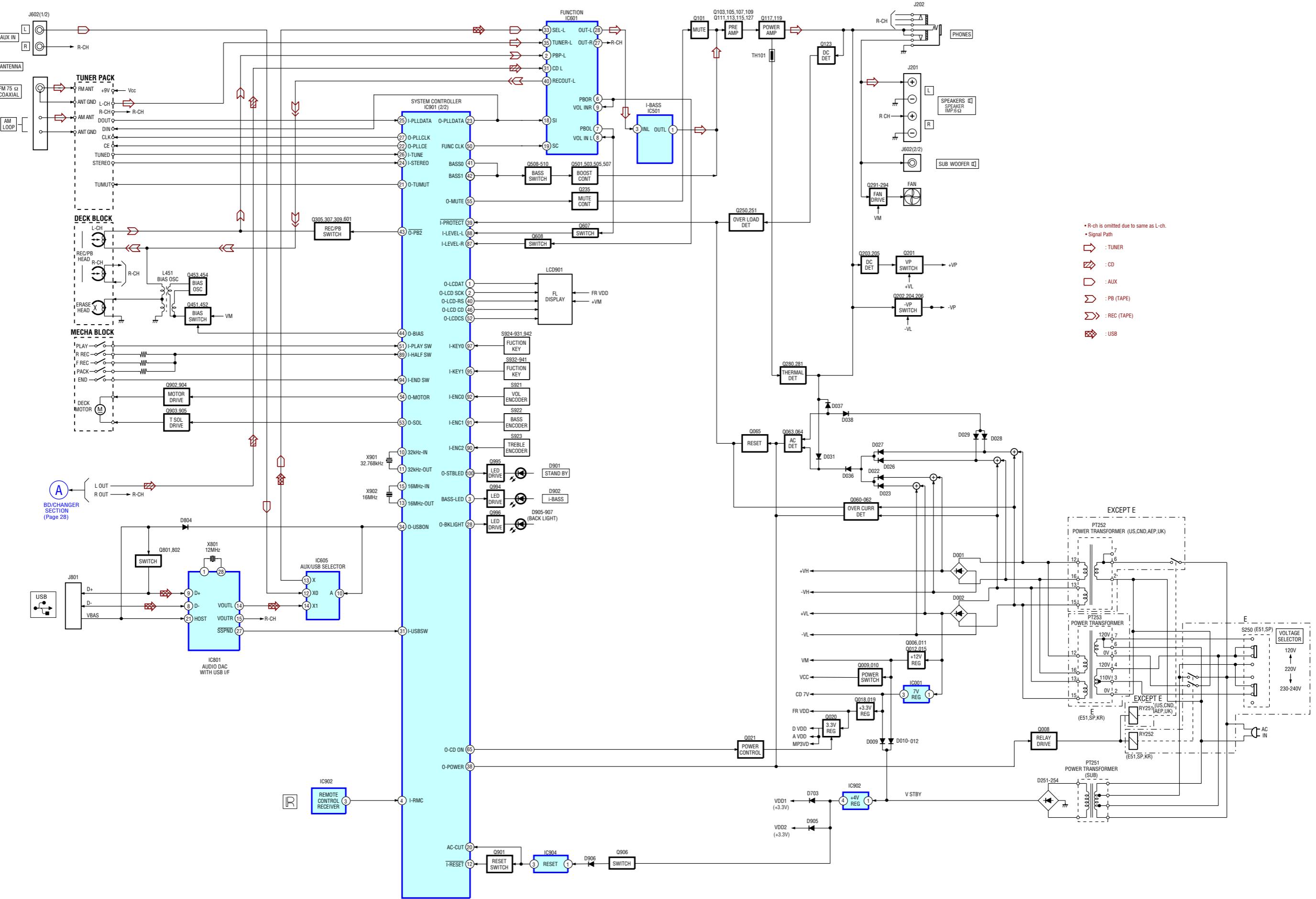


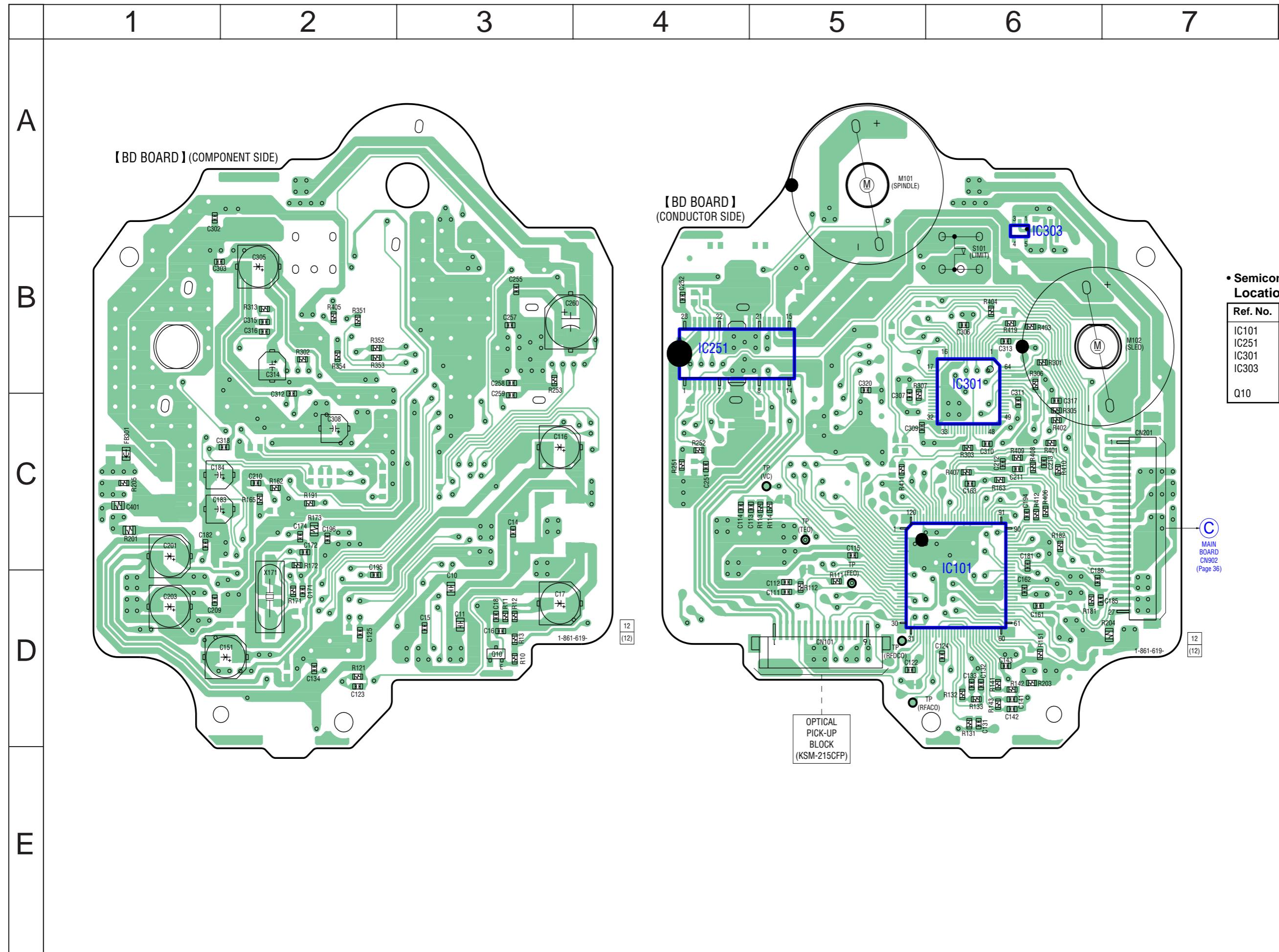
- R-ch is omitted due to same as L-ch.

- Signal Path

→ : CD PLAY

— MAIN SECTION —



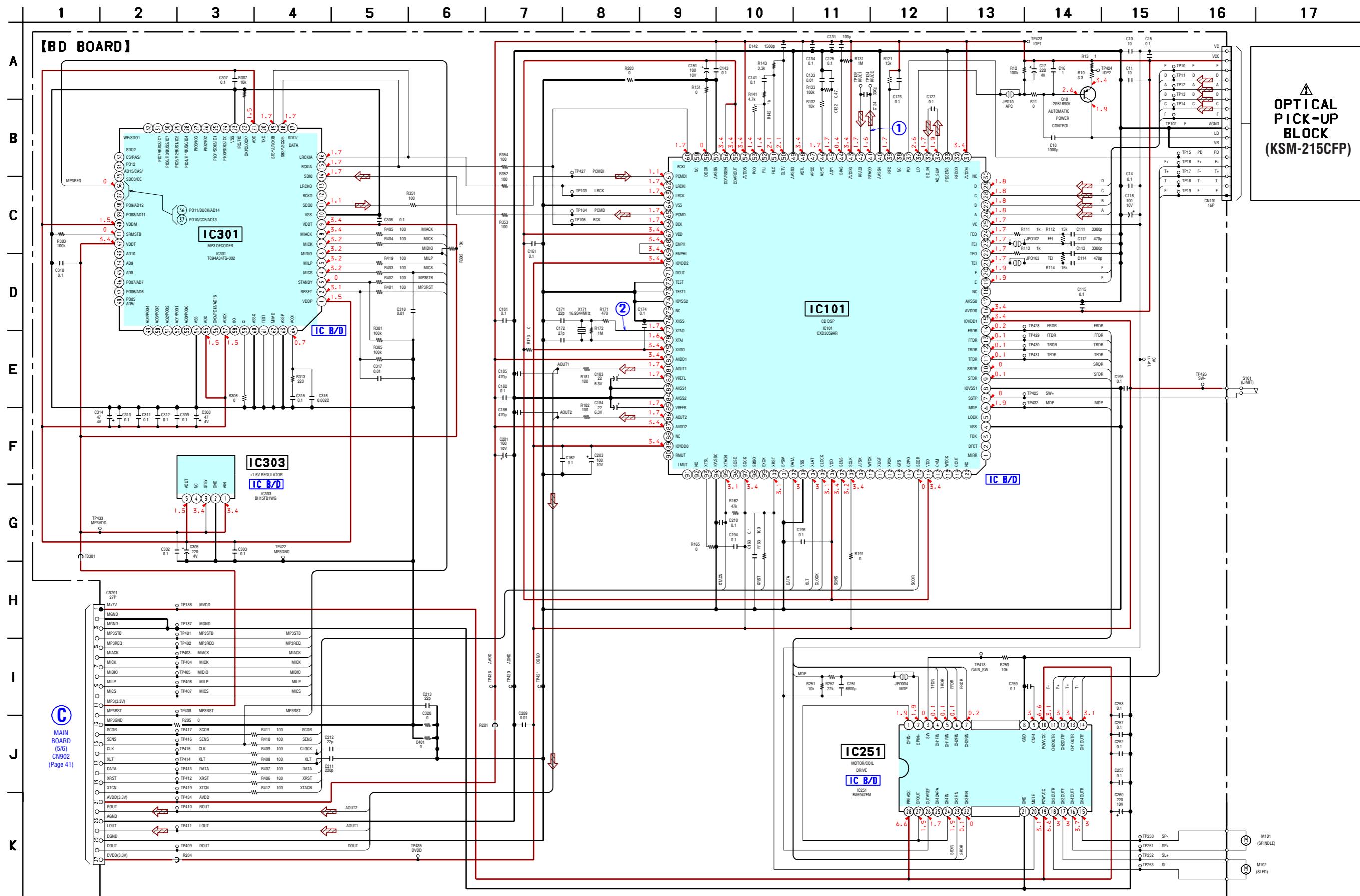


• Semiconductor Location	
Ref. No.	Location
IC101	C-6
IC251	B-4
IC301	B-6
IC303	B-6
Q10	D-3

8-3. SCHEMATIC DIAGRAM — BD SECTION —

• See page 45, 46 and 47 for IC Block Diagrams.

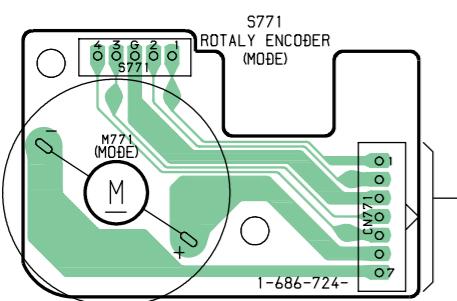
• See page 27 for Waveforms.



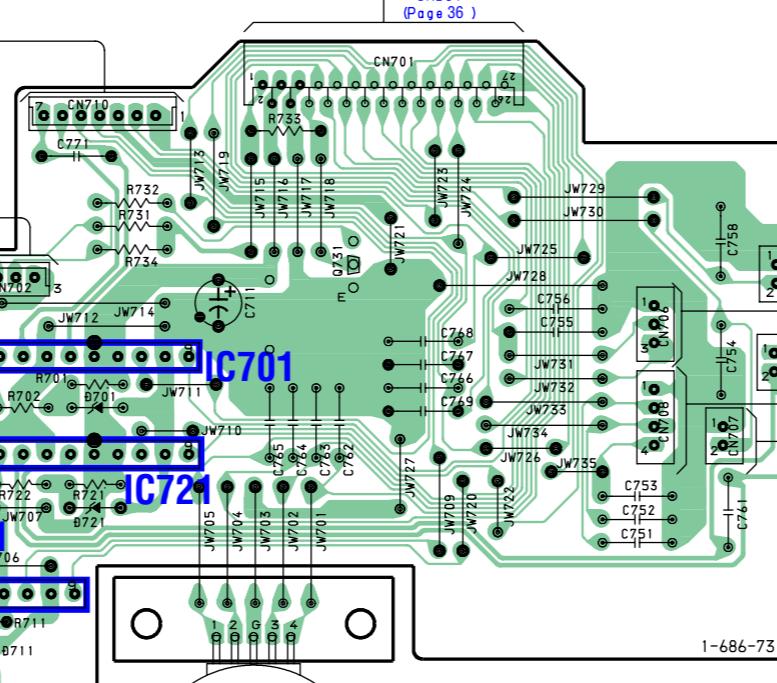
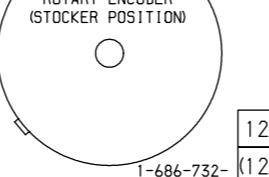
	1	2	3	4	5	6	7	8	9
--	---	---	---	---	---	---	---	---	---

A

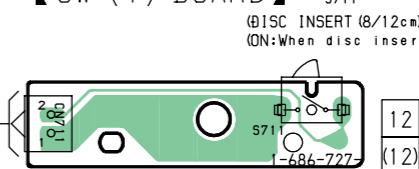
【 MODE MOTOR BOARD 】

S771
ROTARY ENCODER
(MODE)1-686-724-
(12)

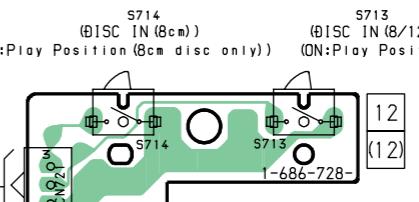
【 CONNECTOR BOARD 】

TO
MAIN
BOARD
CN901
(Page 36)【 ST ENCODER
BOARD 】S702
ROTARY ENCODER
(STOCKER POSITION)1-686-732-
(12)

【 SW (1) BOARD 】

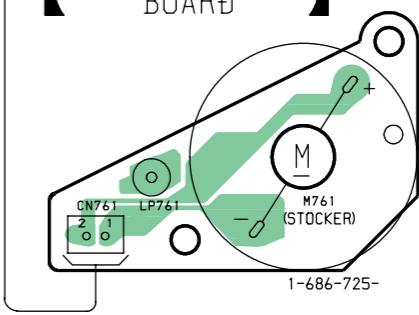
S711
(DISC INSERT (8/12cm))
(ON:When disc insert)1-686-727-
(12)

【 SW (2) BOARD 】

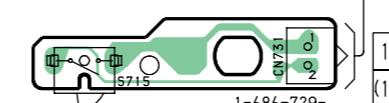
S714
(DISC IN (8cm))
(ON:Play Position (8cm disc only))S713
(DISC IN (8/12cm))
(ON:Play Position)1-686-728-
(12)

• Semiconductor
Location

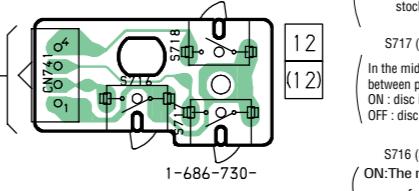
Ref. No.	Location
D701	C-4
D711	C-4
D721	C-4
IC701	C-4
IC711	D-4
IC721	C-4
IC751	C-2
Q731	B-5

【 STOCKER MOTOR
BOARD 】1-686-725-
(12)

【 SW (3) BOARD 】

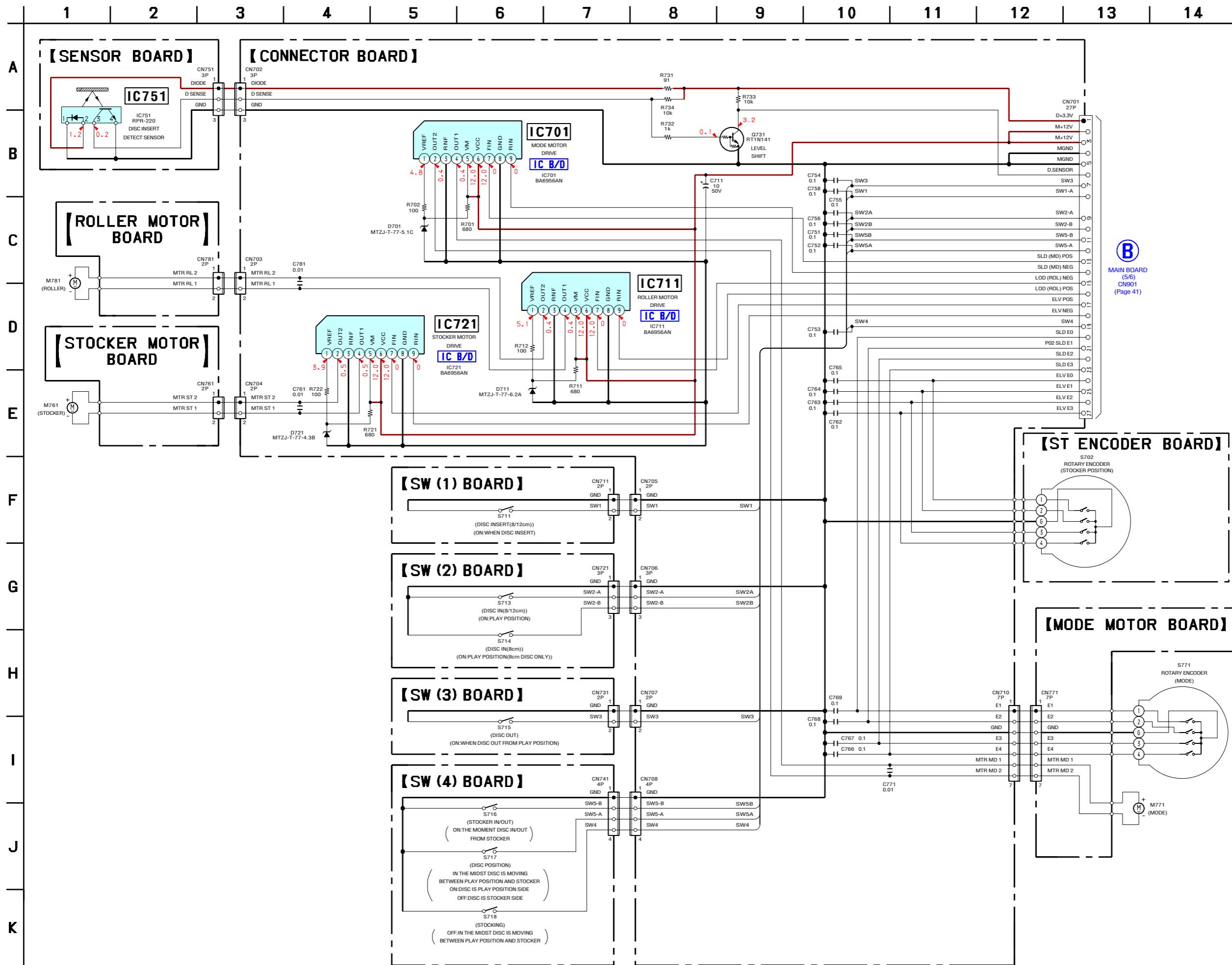
S715 (DISC OUT)
(OFF:When disc out
from play position)1-686-729-
(12)

【 SW (4) BOARD 】

S718 (STOCKING)
(OFF: In the Midst disc is moving
between play position and
stocker)S717 (DISC POSITION)
(In the midst disc is moving
between play position and stocker
ON : disc is play position side
OFF : disc is stocker side)S716 (STOCKER IN/OUT)
(ON:The moment disc in/out
from stocker)

8-5. SCHEMATIC DIAGRAM — CHANGER SECTION —

• See page 48 for IC Block Diagrams.



8-6. PRINTED WIRING BOARDS — FRONT SECTION — • See page 27 for Circuit Boards Location. •  : Uses unleaded solder

4

1: Uses unleaded solder

1 2 3 4 5 6

A

B

C

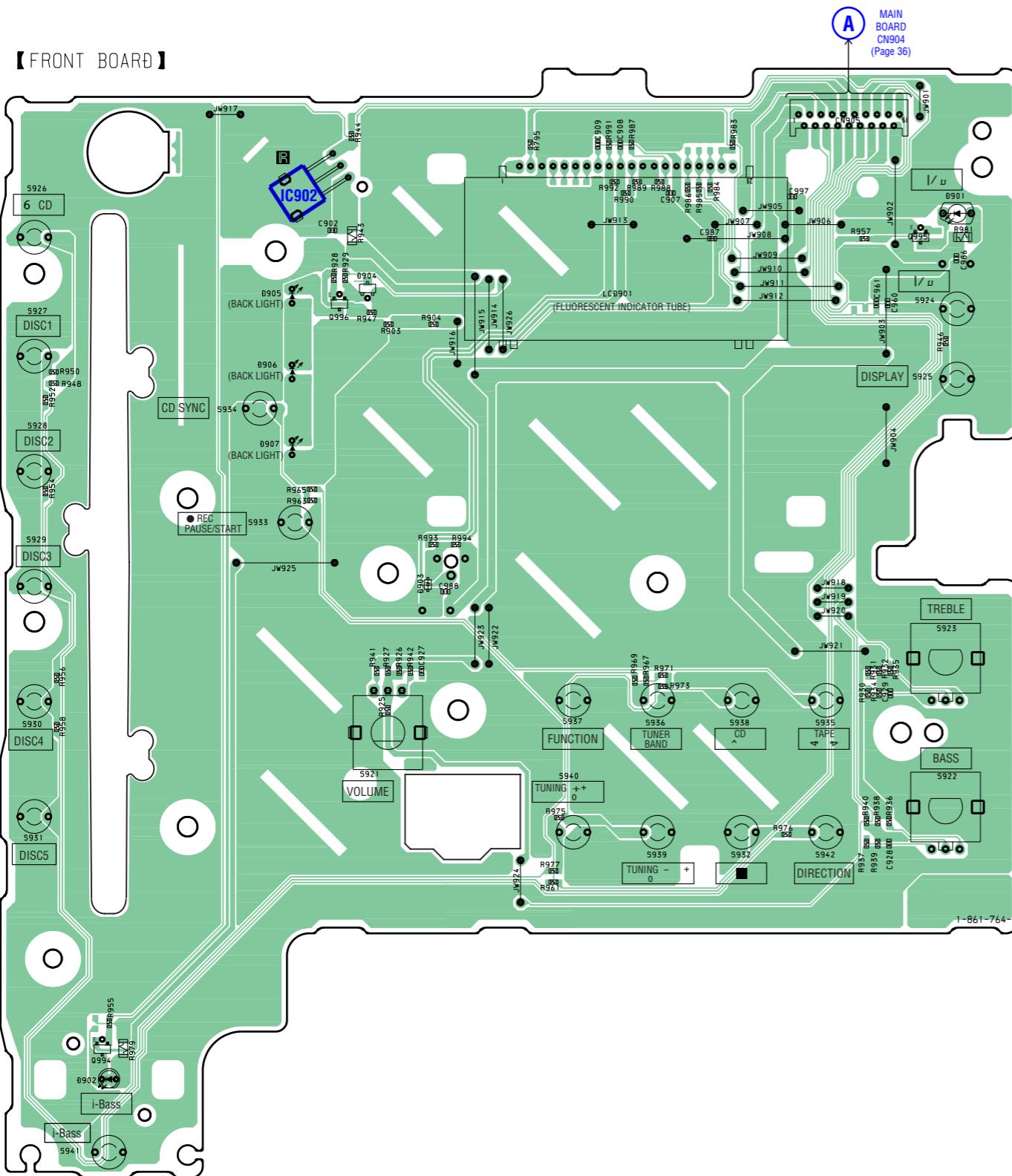
D

F

F

G

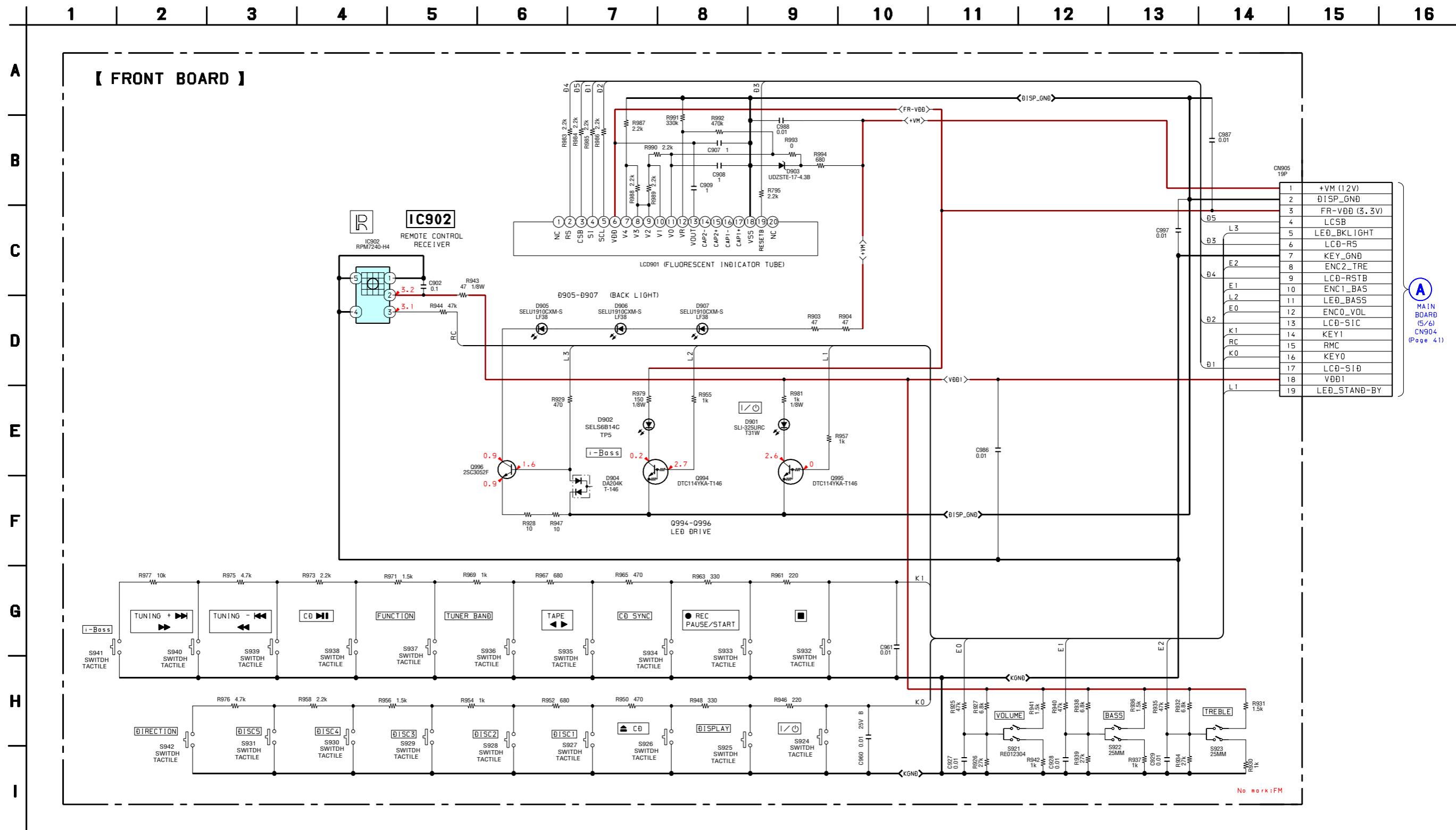
【 FRONT BOARD 】



- Semiconductor Location

Ref. No.	Location
D901	B-6
D902	F-2
D903	D-3
D904	B-3
D905	B-2
D906	C-2
D907	C-2
IC902	B-3
Q994	F-2
Q995	B-6
Q996	B-3

8-7. SCHEMATIC DIAGRAM — FRONT SECTION —



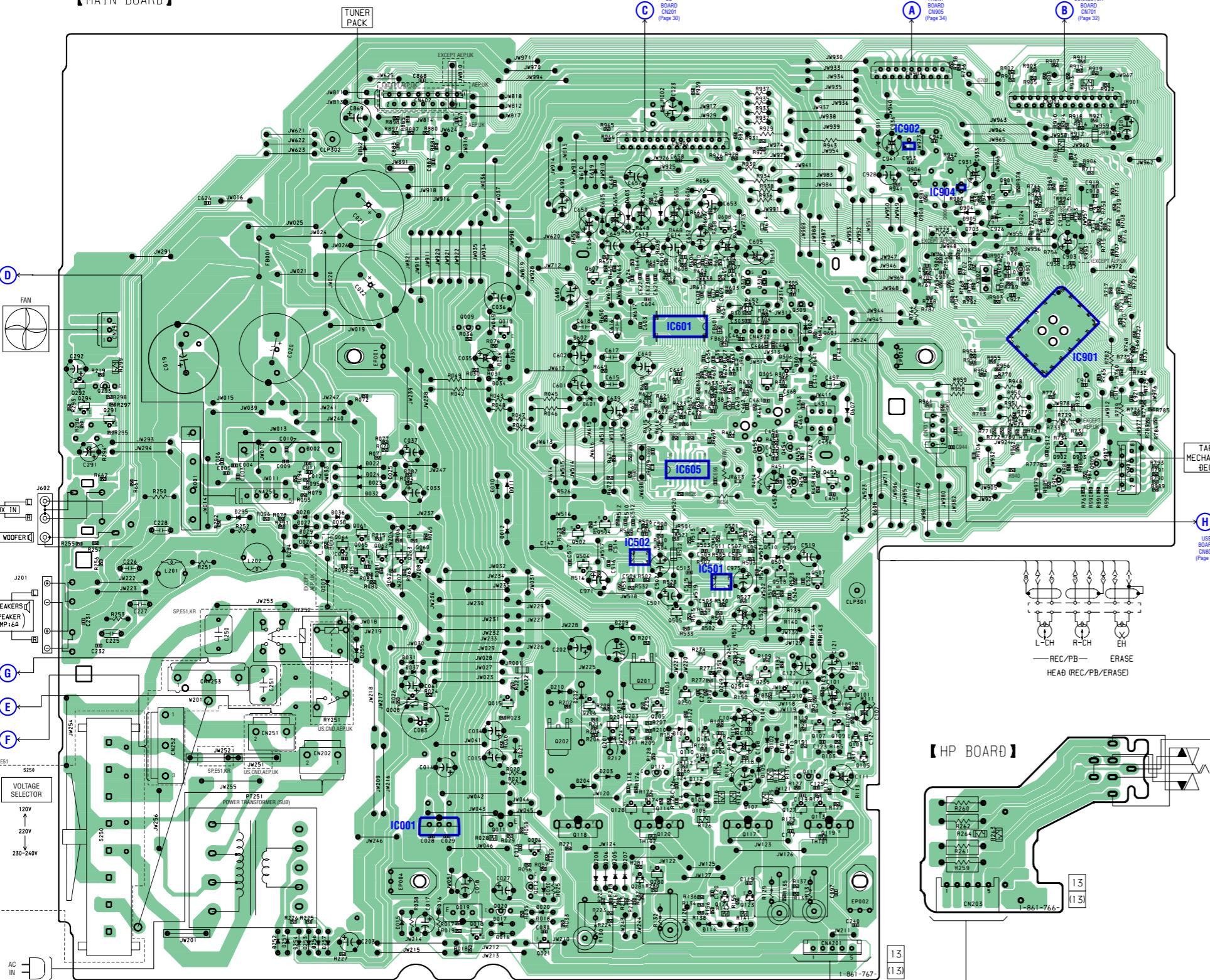
8-8. PRINTED WIRING BOARDS — MAIN SECTION — • See page 27 for Circuit Boards Location. • : Uses unleaded solder.

4

: Uses unleaded solder.

1 2 3 4 5 6 7 8 9 10

【MAIN BOARD】

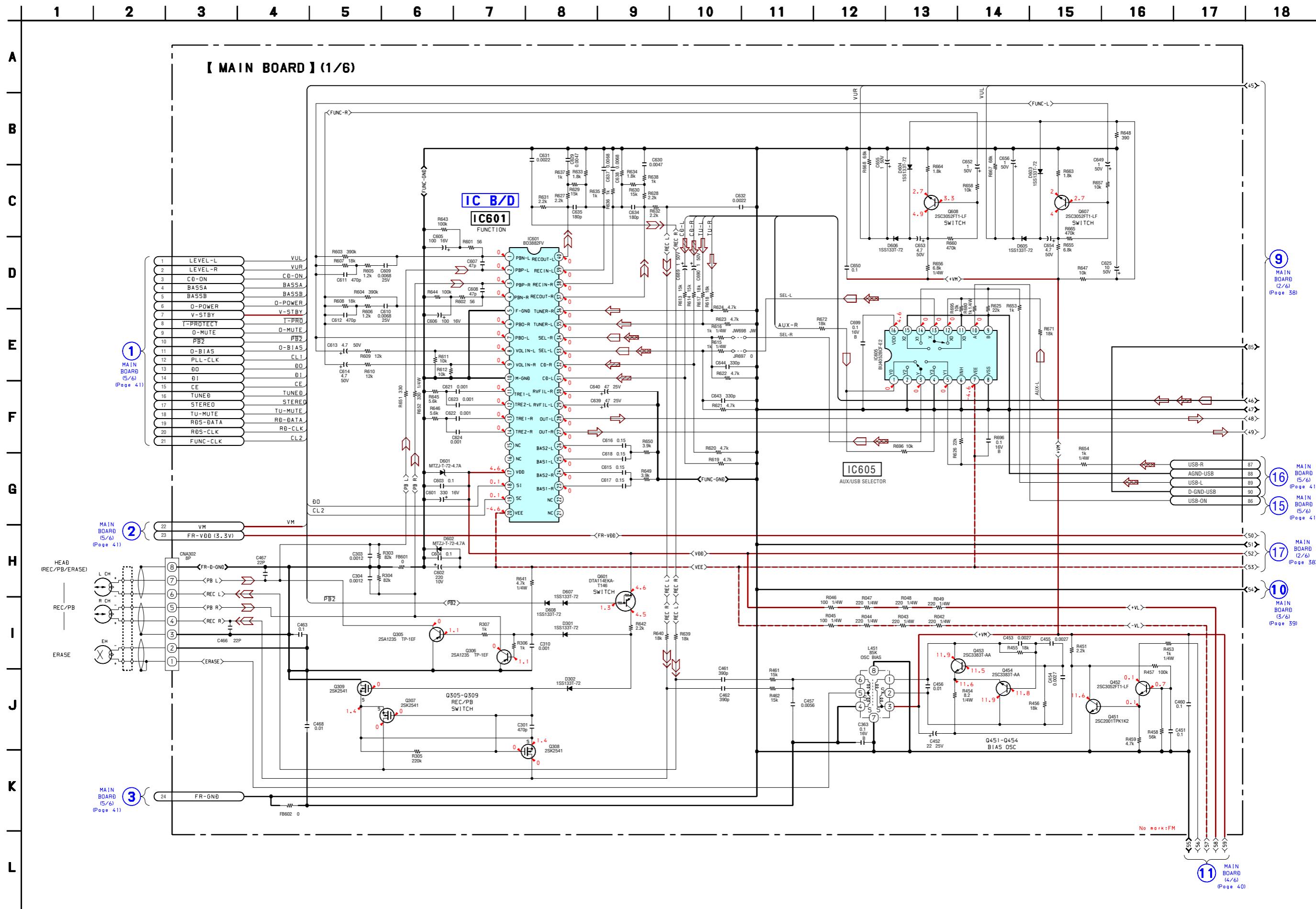


- Semiconductor Location

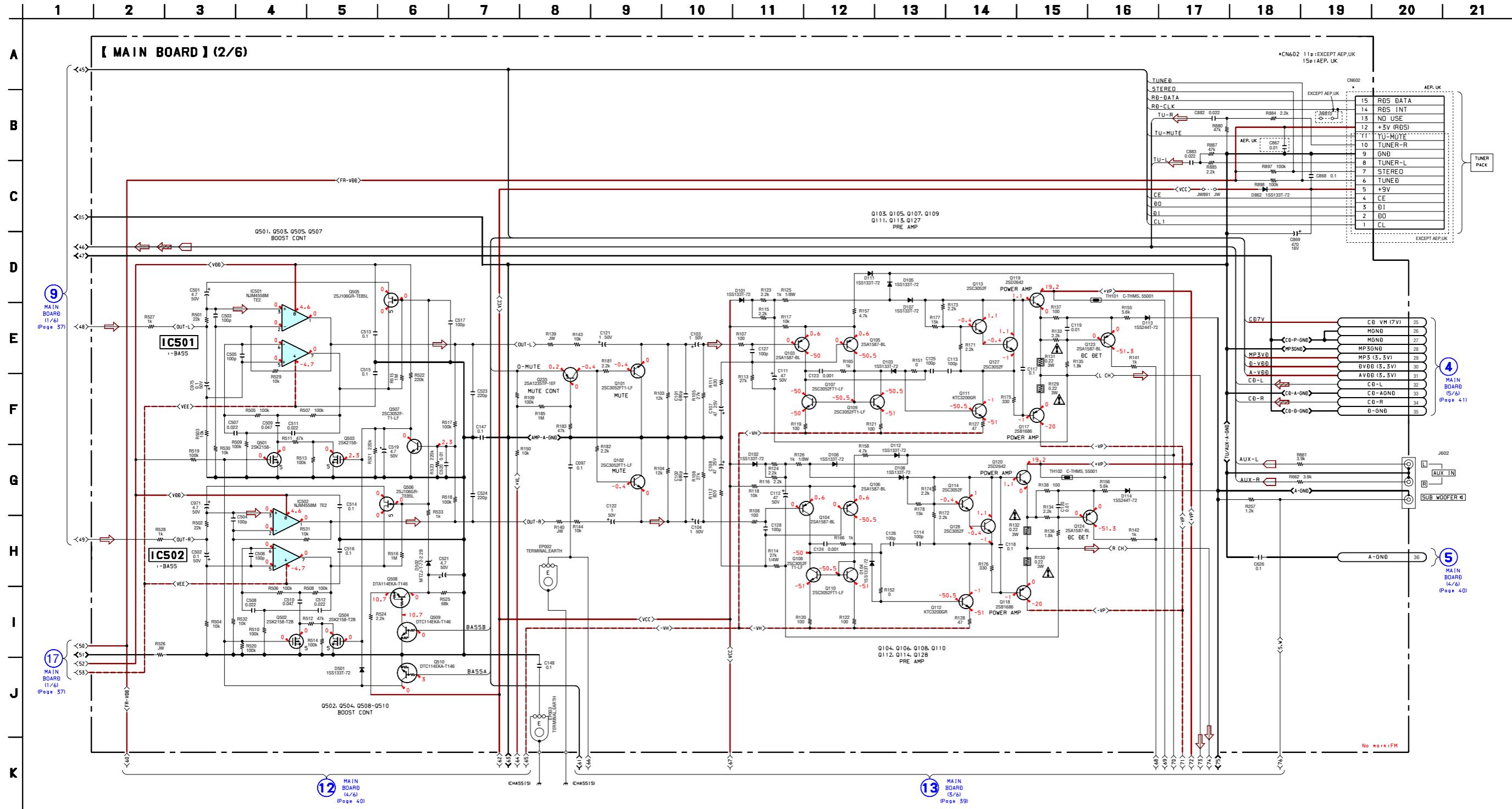
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D001	D-2	D295	E-3	Q109	F-7
D002	D-3	D301	C-6	Q110	F-6
D003	E-3	D302	C-7	Q111	F-6
D010	D-4	D501	E-6	Q112	F-5
D011	D-4	D502	E-6	Q113	G-6
D012	E-4	D601	D-5	Q114	G-5
D015	G-4	D602	C-5	Q117	G-6
D016	G-4	D603	B-5	Q118	G-5
D017	G-4	D604	B-5	Q119	G-7
D020	G-5	D605	B-5	Q120	G-5
D021	F-4	D606	B-6	Q123	G-6
D022	D-3	D607	D-7	Q124	G-6
D023	D-3	D608	D-7	Q127	G-6
D024	D-3	D609	B-5	Q128	G-5
D025	D-4	D610	B-5	Q201	F-5
D026	E-3	D703	B-8	Q202	F-5
D027	E-3	D862	B-3	Q203	F-5
D028	E-3	D901	B-8	Q204	F-5
D029	E-3	D904	B-8	Q205	F-5
D030	G-5	D905	B-8	Q206	F-5
D031	E-4	D907	D-8	Q235	F-6
D034	C-4	D908	B-7	Q250	F-6
D035	C-4	D911	B-7	Q251	F-6
D036	E-3			Q280	G-5
D037	E-4	IC001	G-4	Q281	G-5
D038	E-3	IC501	E-6	Q291	D-2
D101	F-6	IC502	E-5	Q292	D-1
D102	F-6	IC601	C-6	Q293	D-2
D103	F-7	IC605	D-6	Q294	D-1
D104	F-6	IC901	C-8	Q305	C-6
D105	F-6	IC902	B-7	Q306	C-6
D106	F-6	IC904	B-8	Q307	C-6
D107	F-6			Q308	C-6
D108	G-6	Q006	G-4	Q309	C-6
D111	F-6	Q008	F-4	Q451	D-6
D112	F-6	Q009	C-4	Q452	D-7
D113	G-6	Q010	C-4	Q453	D-6
D114	G-6	Q011	G-4	Q454	D-6
D201	F-5	Q012	G-4	Q501	E-6
D202	F-5	Q015	F-4	Q502	E-5
D203	F-5	Q018	G-4	Q503	E-6
D204	F-5	Q019	G-4	Q504	E-5
D205	G-5	Q020	G-4	Q505	E-6
D206	G-5	Q021	G-5	Q506	E-5
D207	G-5	Q060	E-4	Q507	E-7
D208	G-5	Q061	E-3	Q508	E-6
D209	E-5	Q062	E-3	Q509	E-6
D210	F-5	Q063	E-4	Q510	E-6
D249	F-6	Q064	E-3	Q601	C-7
D250	E-6	Q065	E-3	Q607	C-5
D251	G-3	Q101	F-7	Q608	B-6
D252	G-3	Q102	F-6	Q901	B-8
D253	G-3	Q103	F-7	Q902	D-8
D254	G-3	Q104	F-6	Q903	D-8
D255	E-3	Q105	F-7	Q904	D-8
D256	G-3	Q106	F-6	Q905	D-8
D257	G-3	Q107	F-7	Q906	B-7
D294	E-3	Q108	F-6		

8-9. SCHEMATIC DIAGRAM — MAIN SECTION 1 —

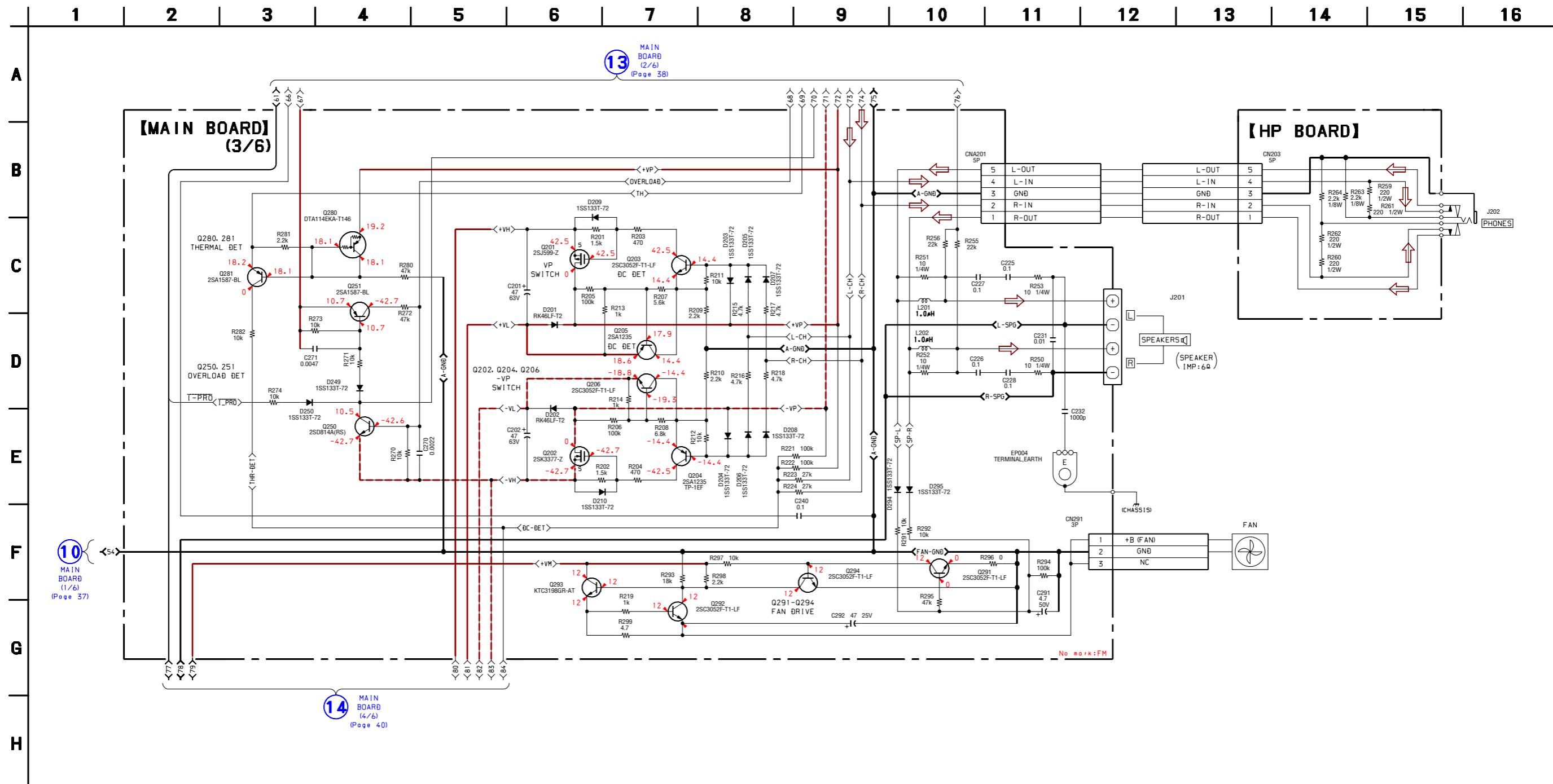
- See page 48 for IC Block Diagrams.



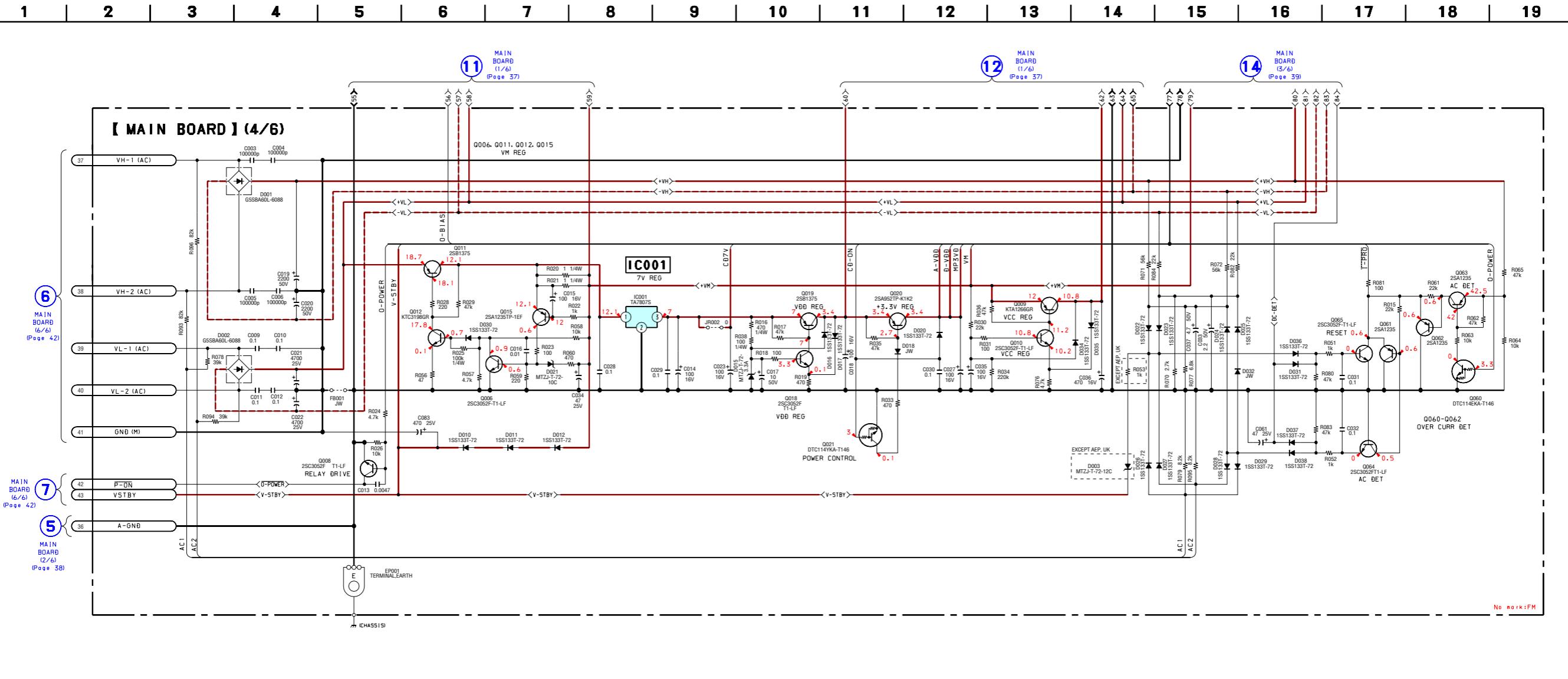
8-10. SCHEMATIC DIAGRAM — MAIN SECTION 2 —



8-11. SCHEMATIC DIAGRAM — MAIN SECTION 3 —



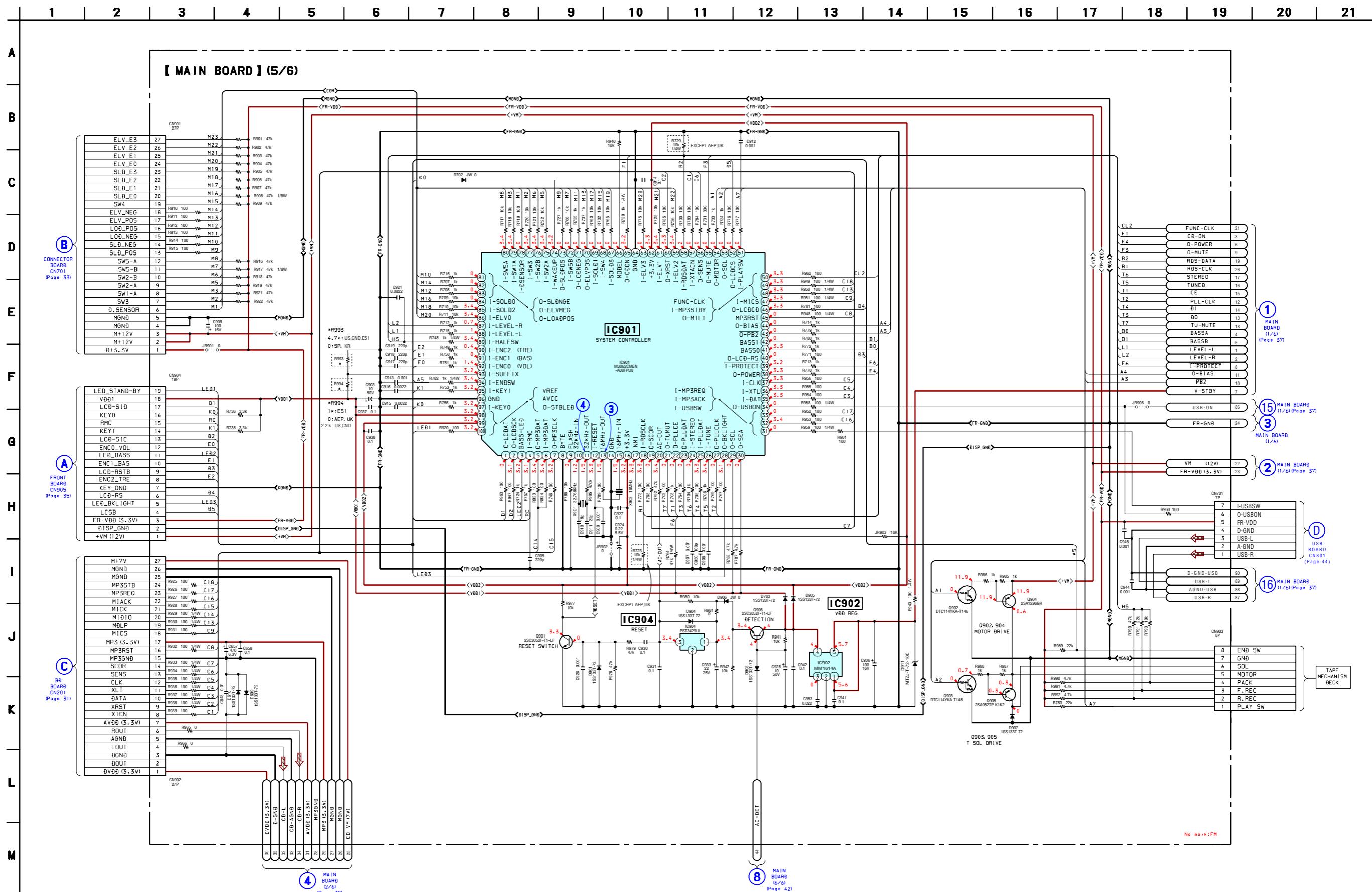
8-12. SCHEMATIC DIAGRAM — MAIN SECTION 4 —



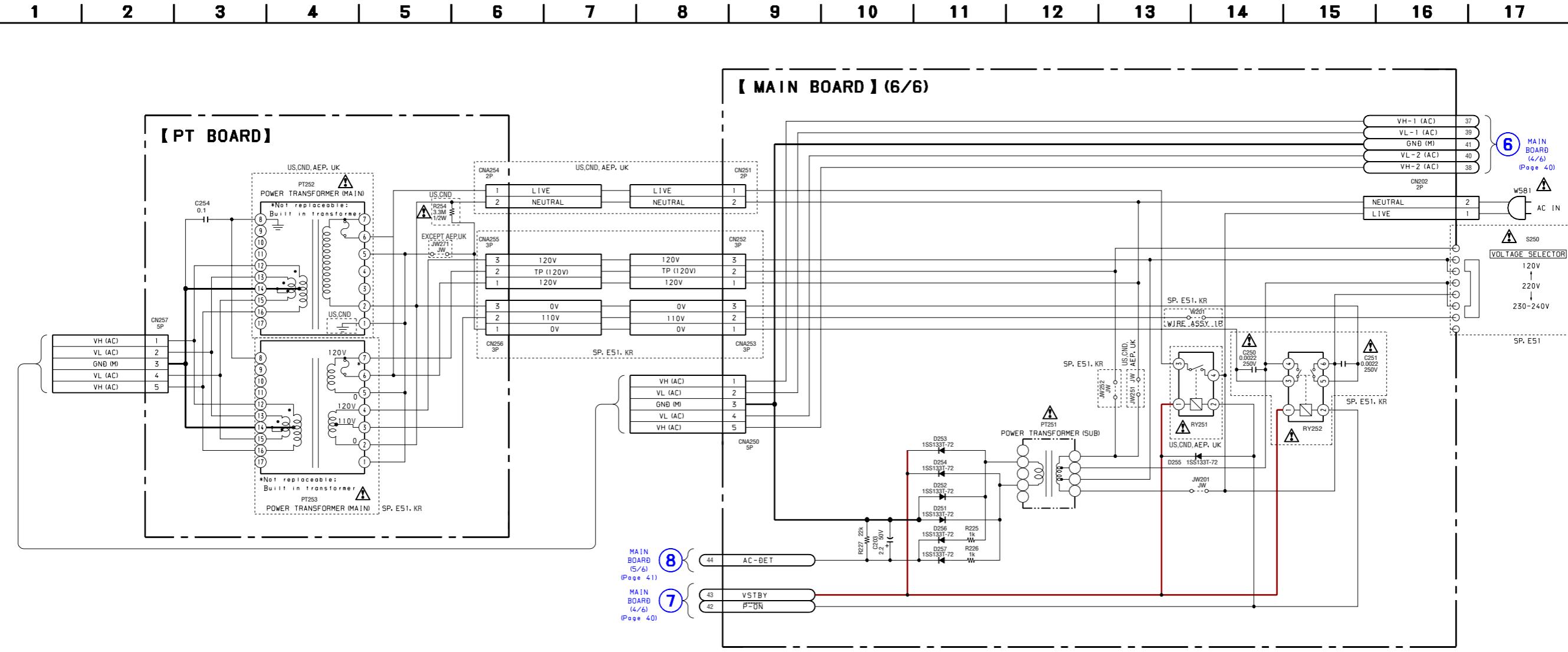
8-13. SCHEMATIC DIAGRAM — MAIN SECTION 5 —

- See page 50 for IC Pin Function Description.

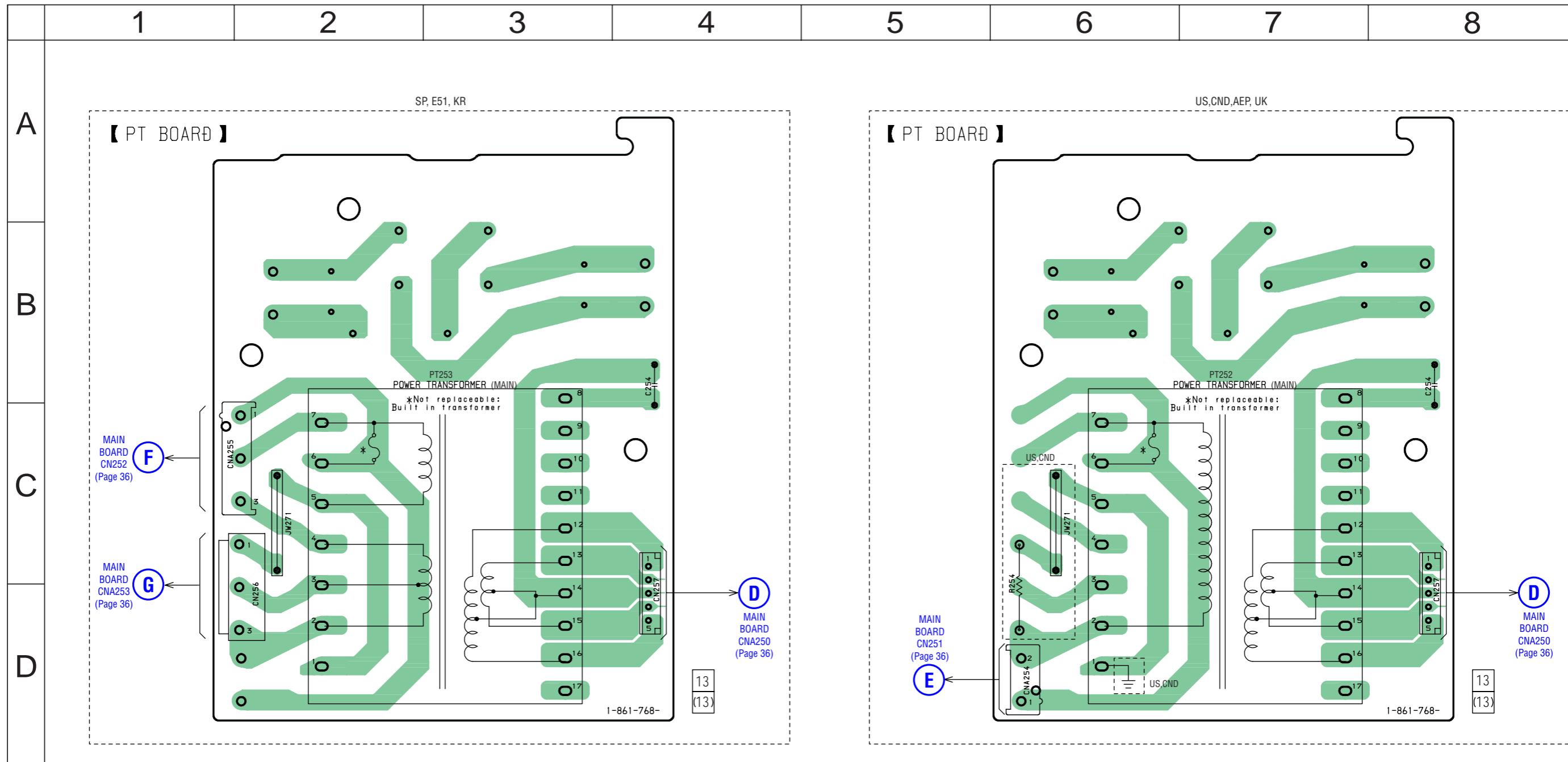
- See page 27 for Waveforms



8-14. SCHEMATIC DIAGRAM — MAIN SECTION 6/POWER SECTION —



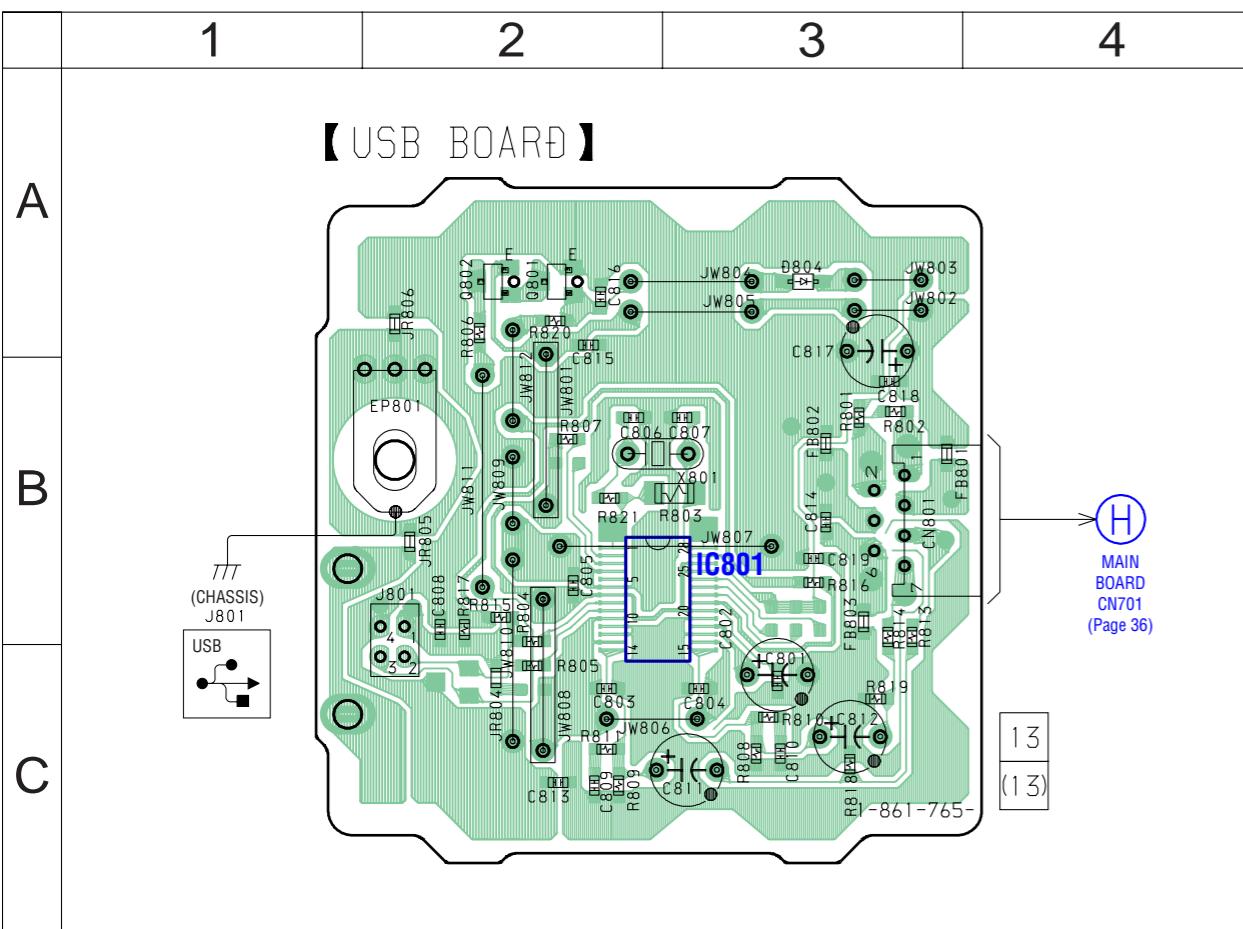
8-15. PRINTED WIRING BOARDS — POWER SECTION —

• See page 27 for Circuit Boards Location. •  : Uses unleaded solder.

8-16. PRINTED WIRING BOARDS — USB SECTION —

- See page 27 for Circuit Boards Locations

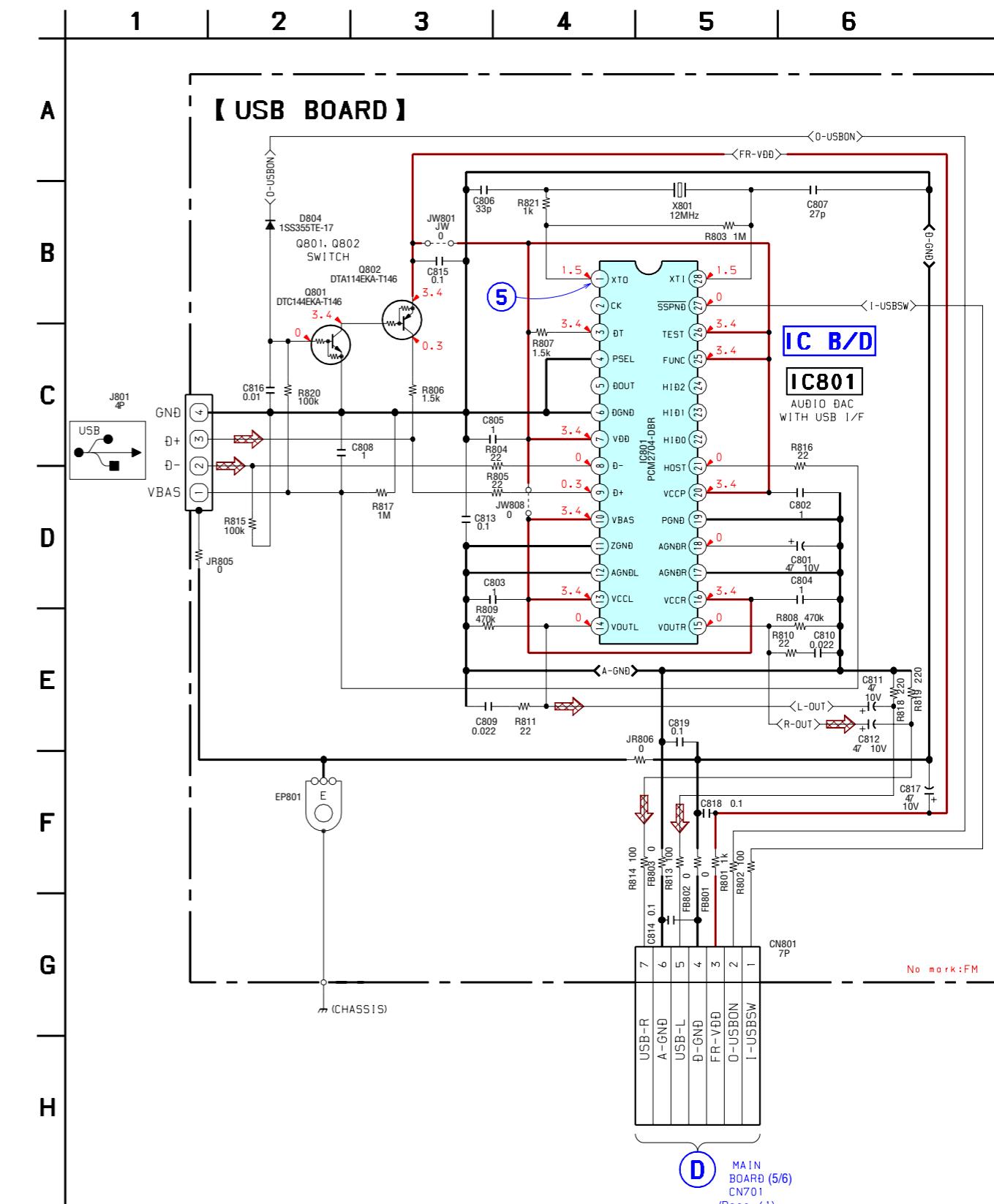
- : Uses unleaded solder



8-17. SCHEMATIC DIAGRAM — USB SECTION —

- See page 49 for IC Block Diagrams.

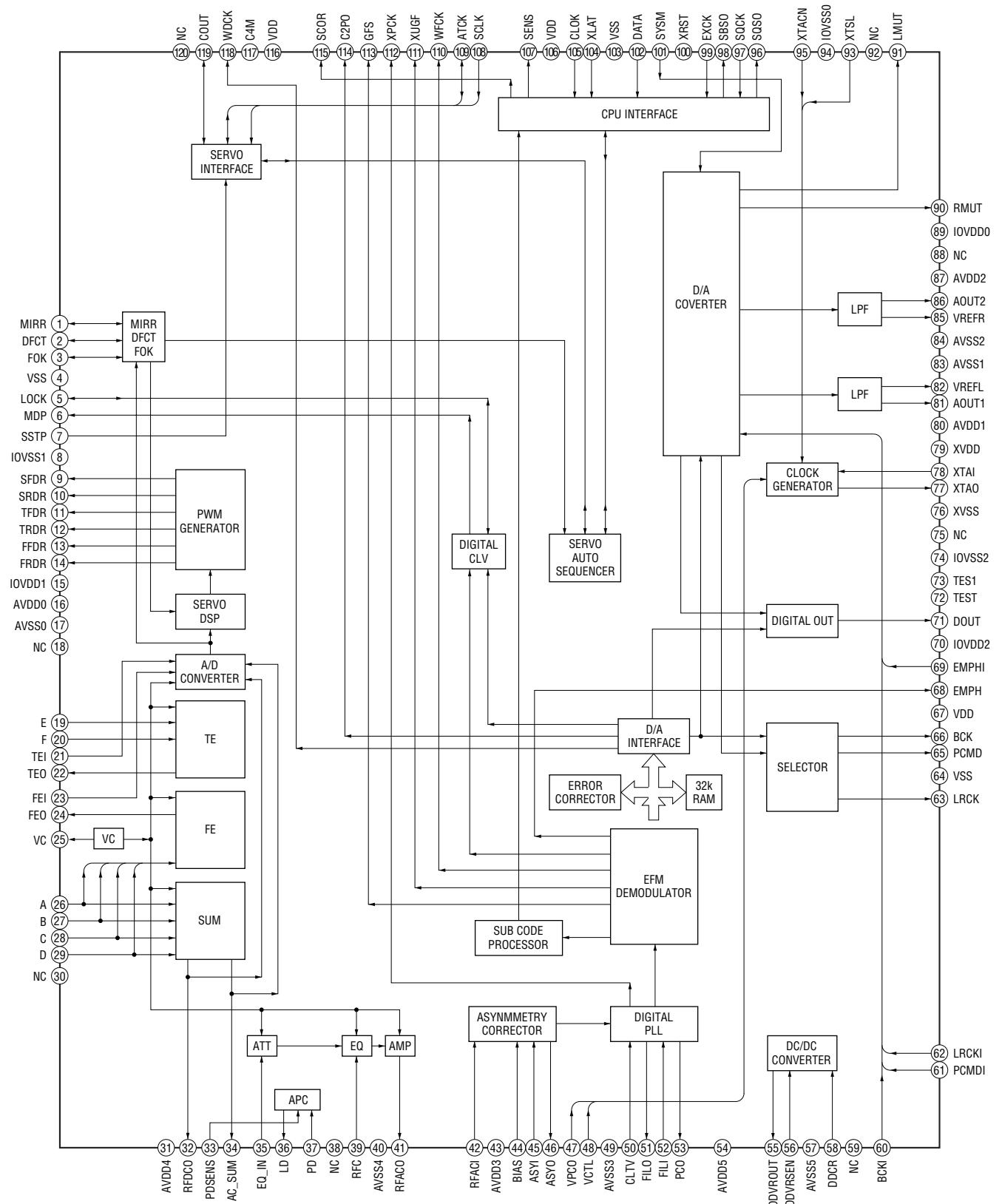
- See page 27 for Waveforms.



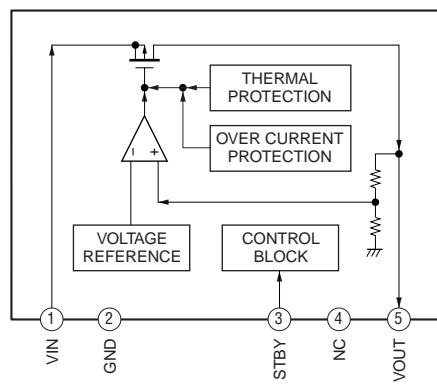
• IC Block Diagrams

— BD Board —

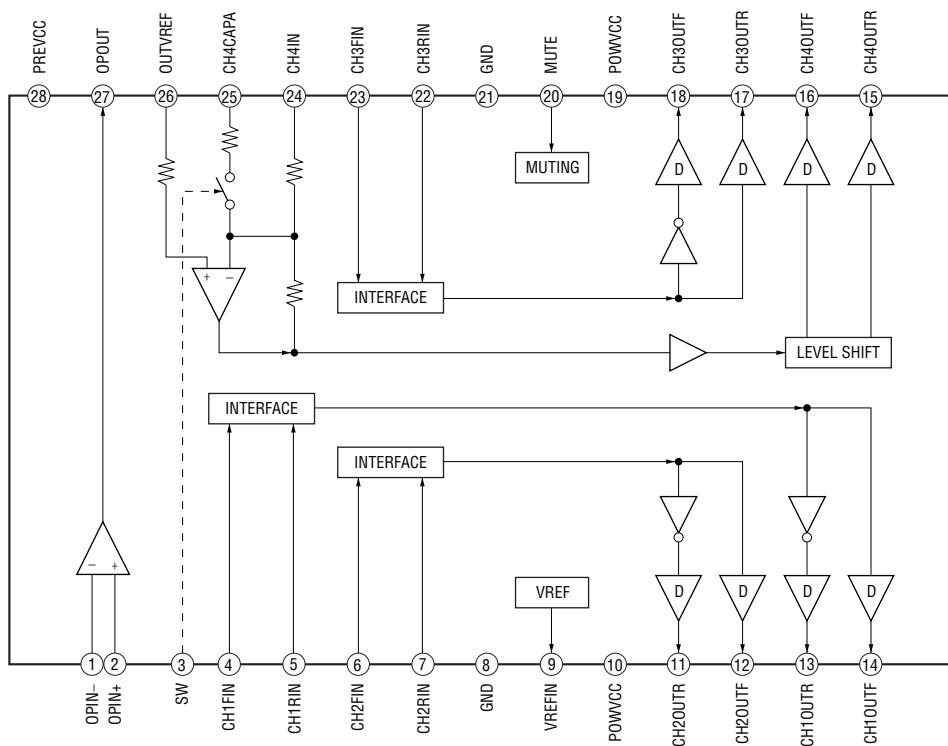
IC101 CXD3059AR



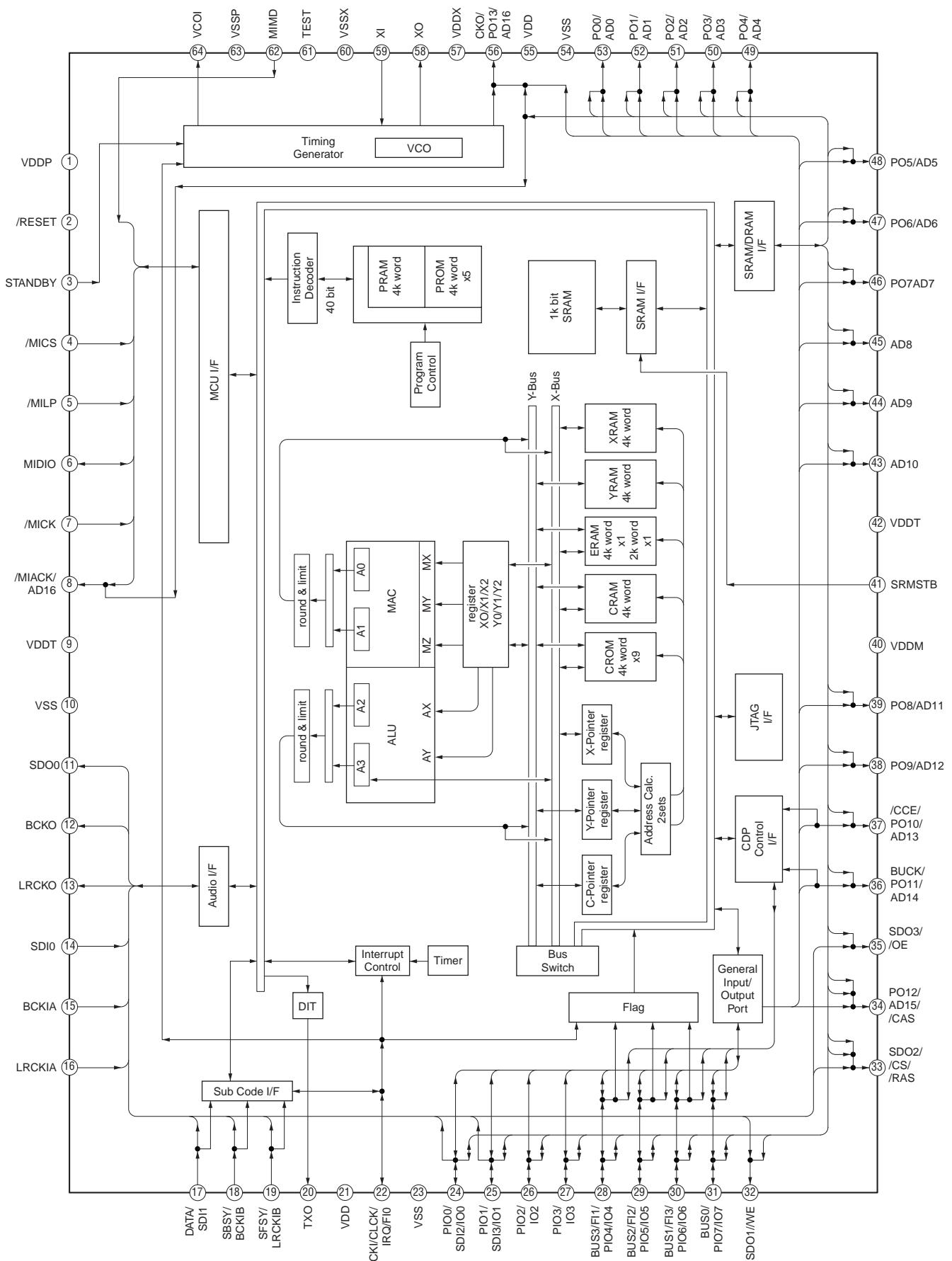
IC303 BH15FB1WG



IC251 BA5947FM

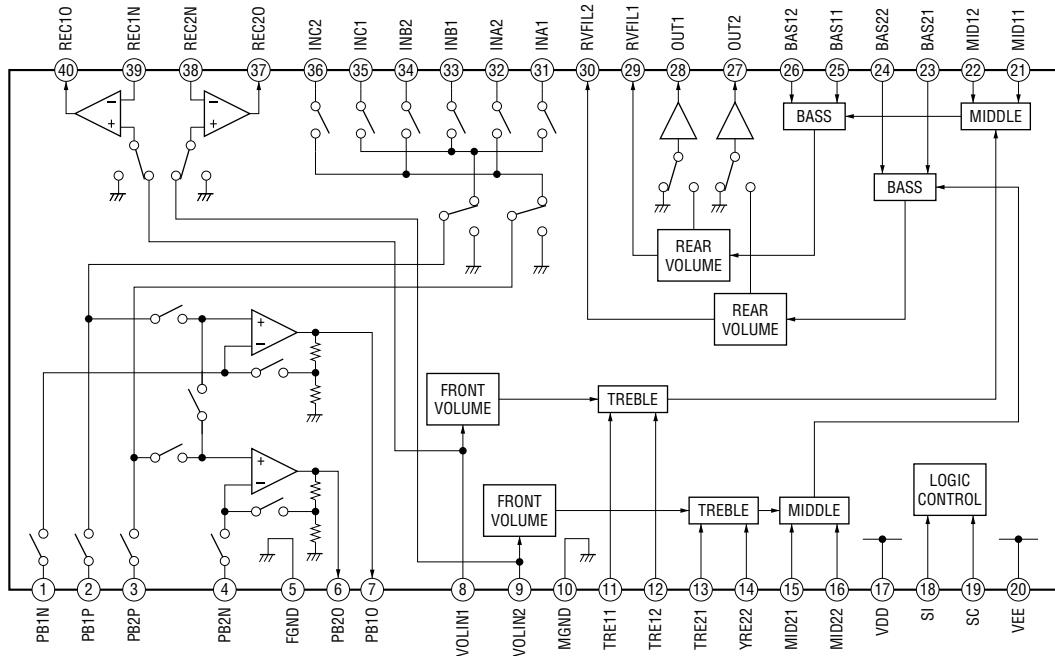


IC301 TC94A34FG-002



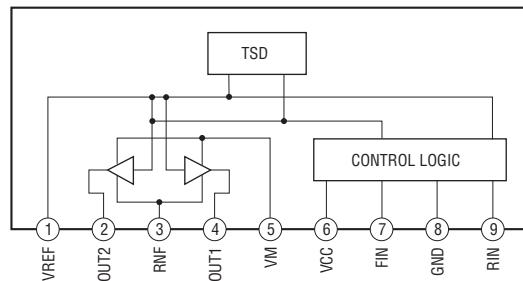
— MAIN Board —

IC601 BD3882FV



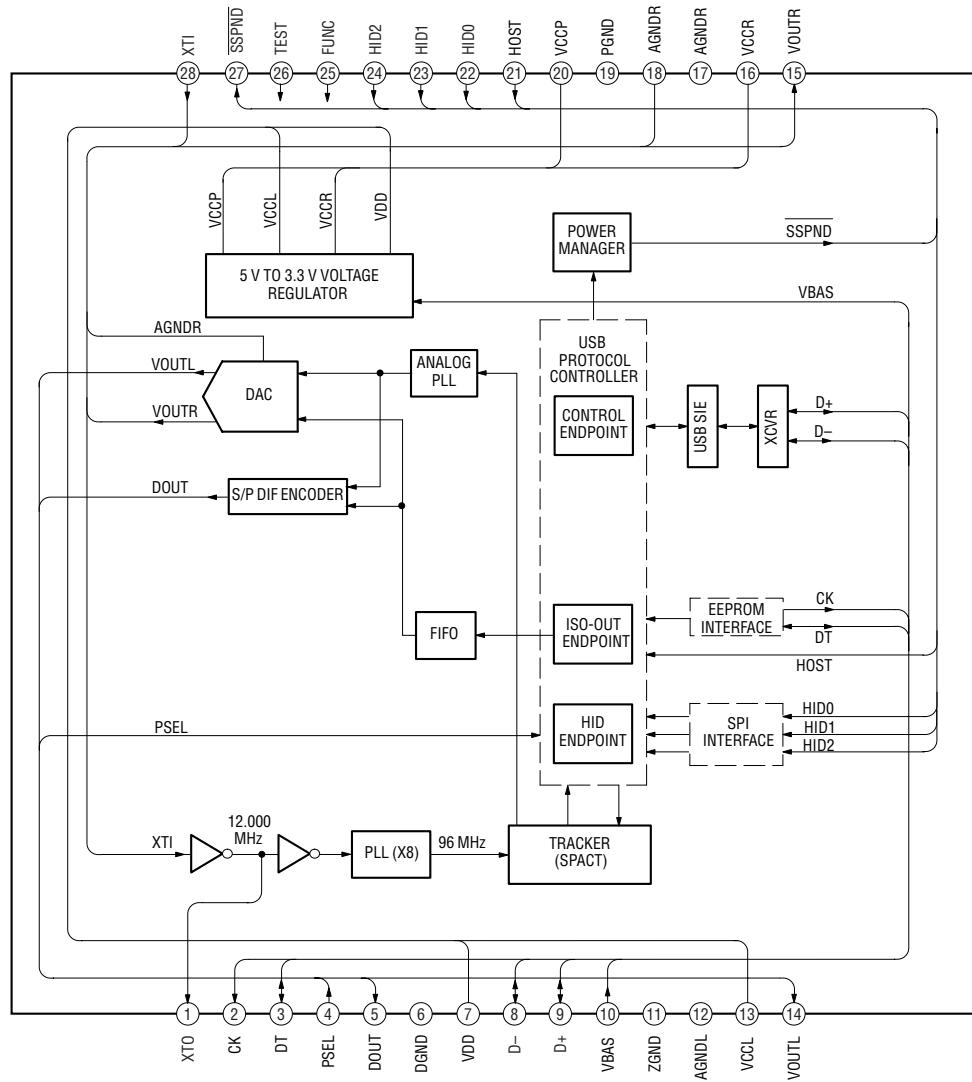
— CONNECTOR Board —

IC701, 711, 721 BA6956AN



— USB Board —

IC801 PCM2704 – DBR



• IC Pin Function Description

• IC901 M3062CMEN-A08FPU0 (SYSTEM CONTROLLER) (MAIN BOARD)

Pin No.	Pin Name	I/O	Description
1	O-LCDAT	O	Not used (open)
2	O-LCDSCK	O	Data output to the fluorescent indicator tube
3	O-BASS LED	O	LED (i-Bass/DEMO) control signal output
4	I-RMC	I	Remote control signal input from the remote sensor
5	O-MP3DAT	I/O	Data input/output from/to the MP3 IC
6	I-MP3DAT	I	Data input from the CD unit
7	O-MP3CLK	O	Clock output to the CD unit
8	BYTE	I	Destination setting input terminal
9	FLASH	—	Not used
10	32KHz-IN	I	Oscillaion circuit signal input for the real time clock
11	32KHz-OUT	O	Oscillaion circuit signal output for the real time clock
12	<u>RESET</u>	I	Reset signal input
13	16MHz-OUT	O	Oscillaion circuit signal output for the system main clock
14	VSS1	—	Ground terminal
15	16MHz-IN	I	Oscillaion circuit signal input for the system main clock
16	VDD1	—	Power supply terminal (+3.3 V)
17	MNI	—	Not used
18	RDSCLK	I	Clock signal input from the tuner
19	I-RDS_CLK	I	RDS signal input from the tuner
20	AC-CUT	I	Power down detection signal input
21	O-TUMUT	O	Muting control signal output to the tuner
22	O-PLLCE	O	Latch signal output to the tuner
23	O-PLLDAT	O	Data output to the tuner
24	I-STEREO	I	Stereo detection signal input from the tuner
25	I-PLLDAT	I	Data input from the tuner
26	I-TUNED	I	Tuner tuned status signal input from the tuner
27	O-PLLCLK	O	Clock output to the tuner
28	O-BKLIGHT	O	LED (BACK LIGHT) control signal output
29	O-SCL	—	Not used
30	O-SDA	—	Not used
31	I-USBSW	—	Not used
32	I-MIACK	I	Acknowledge signal input from the MP3 IC
33	I-MP3REQ	I	Request signal input from the MP3 IC
34	O-USBON	I	Not used
35	O-DATA	O	Data output to the CD unit
36	O-XLT	O	Control data latch signal output to the CD unit
37	O-CLOK	O	Clock output to the CD unit
38	O-POWER	O	Main power control signal output
39	<u>I-PROTECT</u>	I	Voltage detection signal input
40	O-LCDRS	O	Clock signal output to the fluorescent indicator tube
41	O-BASS_0	O	Level control signal output for i-Bass
42	O-BASS_1	O	Level control signal output for i-Bass
43	O-PB2	O	Playback selection signal output for the tape deck
44	O-BIAS	O	Bias control signal output to the tape deck
45	O-MP3RST	O	Reset signal output to the MP3 IC
46	O-LCDCD	O	Latch signal output to the fluorescent indicator tube
47	I-MICK	O	Clock output to the MP3 IC
48	O-MILP	O	Latch pulse signal output to the MP3 IC
49	O-MP3STB	O	Strobe signal output to the MP3 IC
50	O-FUNC_CLK	O	Clock output to the function IC (IC601)

Pin No.	Pin Name	I/O	Description
51	I-PLAY SW	I	PLAY switch signal input from the tape deck
52	O-LCDCS	O	Chip select signal output to the fluorescent indicator tube
53	O-SOL	O	Solenoid control signal output to the tape deck
54	O-MOTOR	O	Motor control signal output to the tape deck
55	O-MUTE	O	Muting control signal output to the power amplifier
56	I-SENS	I	SENS signal input from the CD unit
57	I-XTACN	I	Clock input from the CD unit
58	I-RDSDAT	I	RDS data input from the tuner
59	I-ELV_E2	I	ELV_E2 switch signal input from the CD mechanism
60	O-XRST	O	Reset signal output to the CD unit
61	I-ELV_E1	I	ELV_E1 switch signal input from the CD mechanism
62	VDD2	—	Power supply terminal (+3.3 V)
63	I-ELV_E3	I	ELV_E3 switch signal input from the CD mechanism
64	VSS2	—	Ground terminal
65	O-CD_ON	O	CD power supply control signal output
66	MODEL	—	Power supply terminal
67	I-SLD_E3	I	SLD_E3 switch signal input from the CD mechanism
68	I-SW4	I	SW4 switch signal input from the CD mechanism
69	I-SLD_E1	I	SLD_E1 switch signal input from the CD mechanism
70	O-ELV_POS	O	Elevator motor control signal output
71	O-LOD_NEG	O	Loading motor control signal output
72	I-SW5-B	I	SW5-B switch signal input from the CD mechanism
73	O-SLD_POS	O	Sled motor control signal output
74	I-WAKEUP	I	SENS signal from the Function Key
75	I-SW2-A	I	SW2-A switch signal input from the CD mechanism
76	I-SW2-B	I	SW2-B switch signal input from the CD mechanism
77	I-SW3	I	SW3 switch signal input from the CD mechanism
78	I-D.SENSOR	I	Disc sensor signal input
79	I-SW1-A	I	SW1-A switch signal input from the CD mechanism
80	I-SW5-A	I	SW5-A switch signal input from the CD mechanism
81	O-SLD_NEG	O	Sled motor control signal output
82	O-ELV_NEG	O	Elevator motor control signal output
83	O-LOD_POS	O	Loading motor control signal output
84	I-SLD_E0	I	SLD_E0 switch signal input from the CD mechanism
85	I-SLD_E2	I	SLD_E2 switch signal input from the CD mechanism
86	I-ELV_E0	I	ELV_E0 switch signal input from the CD mechanism
87	I-LEVEL-R	I	Signal output from the Function IC (Rch)
88	I-LEVEL-L	I	Signal output from the Function IC (Lch)
89	I-R.REC	I	Record protect detect switch signal input (rear)
90	I-ENC2	I	Treble signal input from the rotary encoder
91	I-ENC1	I	Bass signal input from the rotary encoder
92	I-ENC0	I	Volume signal input from the rotary encoder
93	I-SUFFIX	—	Ground terminal
94	I-END SW	I	END switch signal input from the tape deck
95	I-KEY1	I	Key input 1
96	VSS3	—	Ground terminal
97	I-KEY0	I	Key input 0
98	VREF	—	Reference voltage
99	AVCC	—	Power supply terminal
100	O-STLED	O	Standby LED control signal output ("L" : active)

SECTION 9

EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

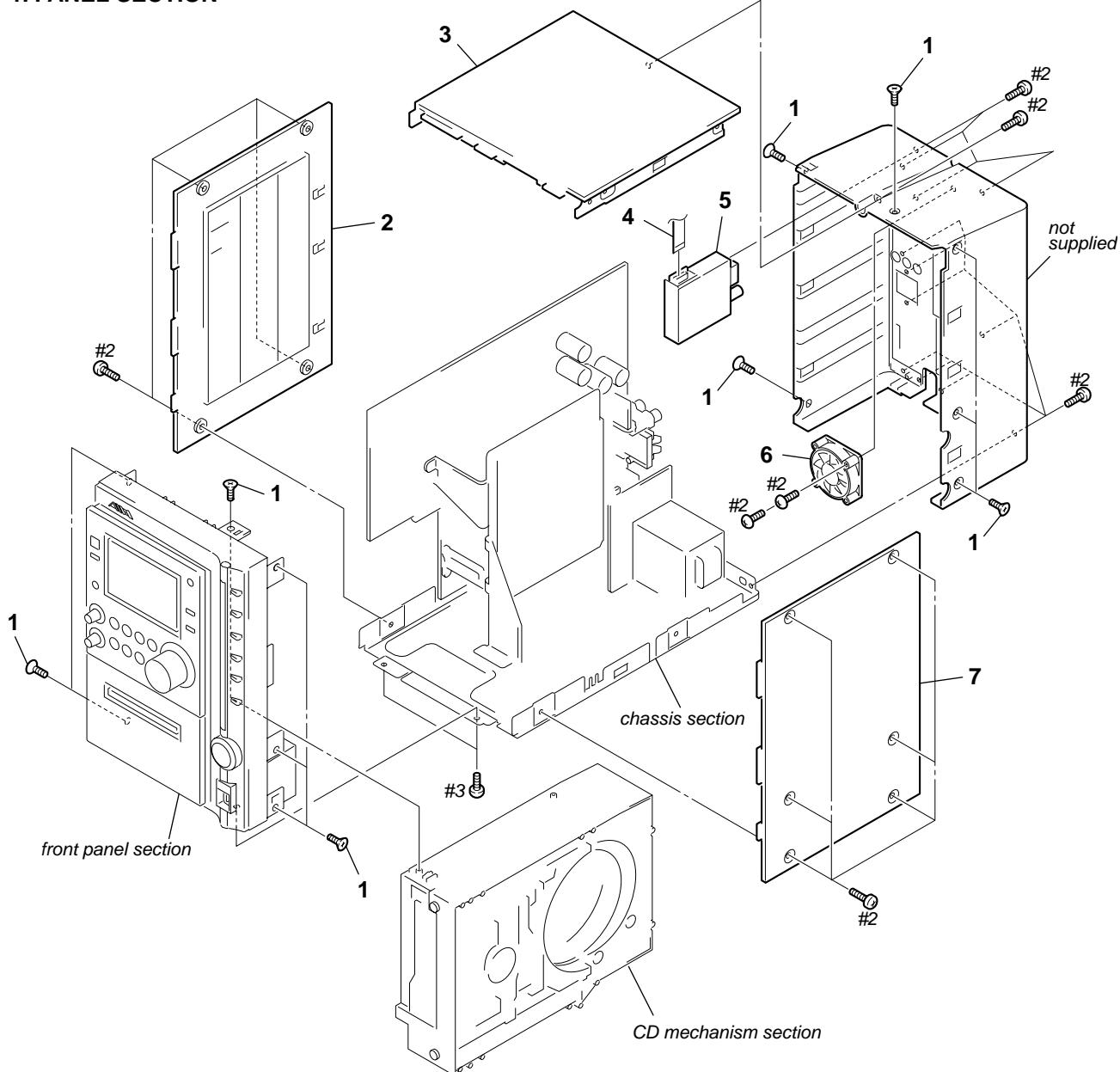
- The mechanical parts with no reference number in the exploded views are not supplied.
- Abbreviation

CND	: Canadian model
E51	: Chilean and Peruvian model
KR	: Korean model
SP	: Singapore model

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

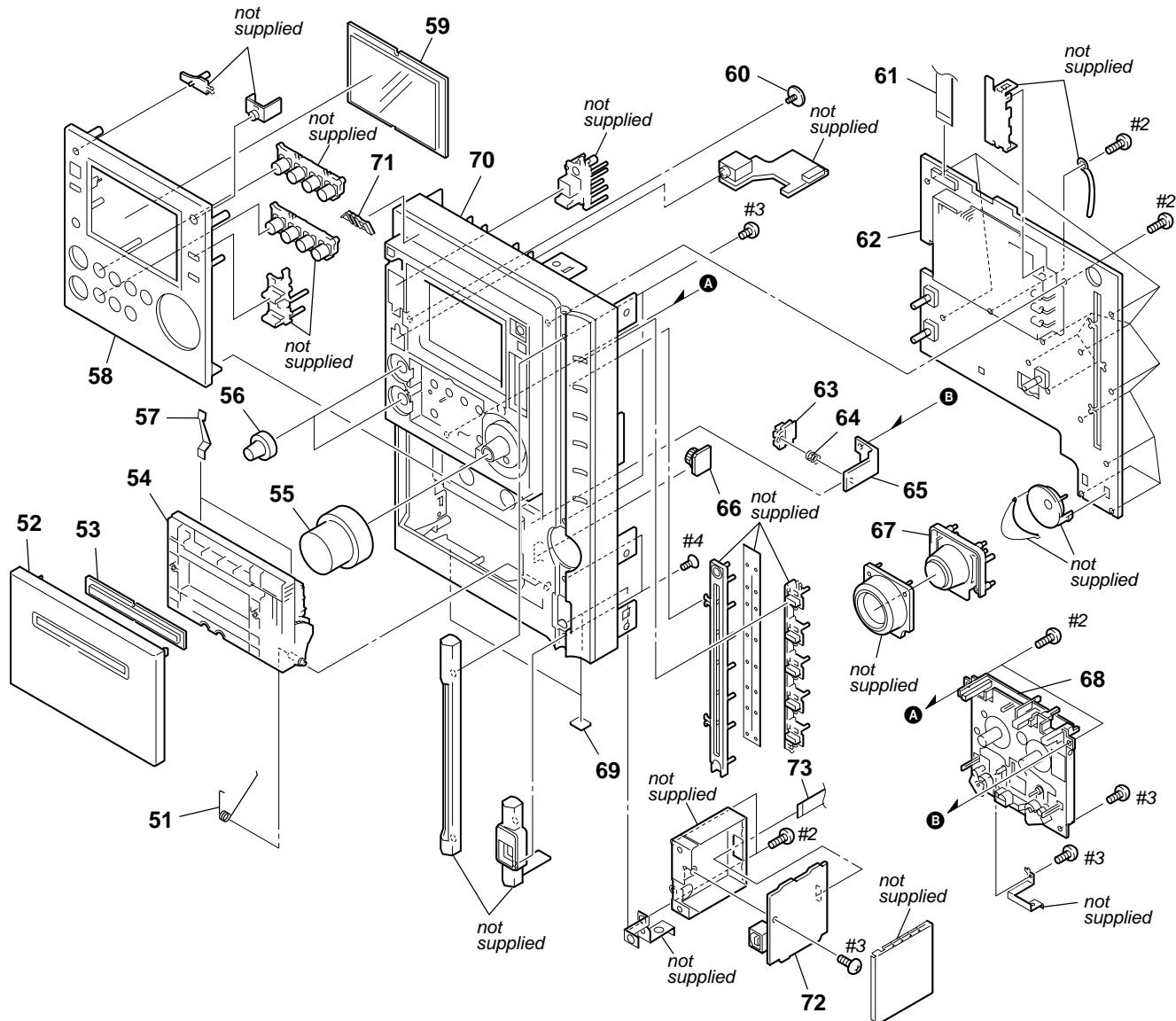
Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

9-1. PANEL SECTION

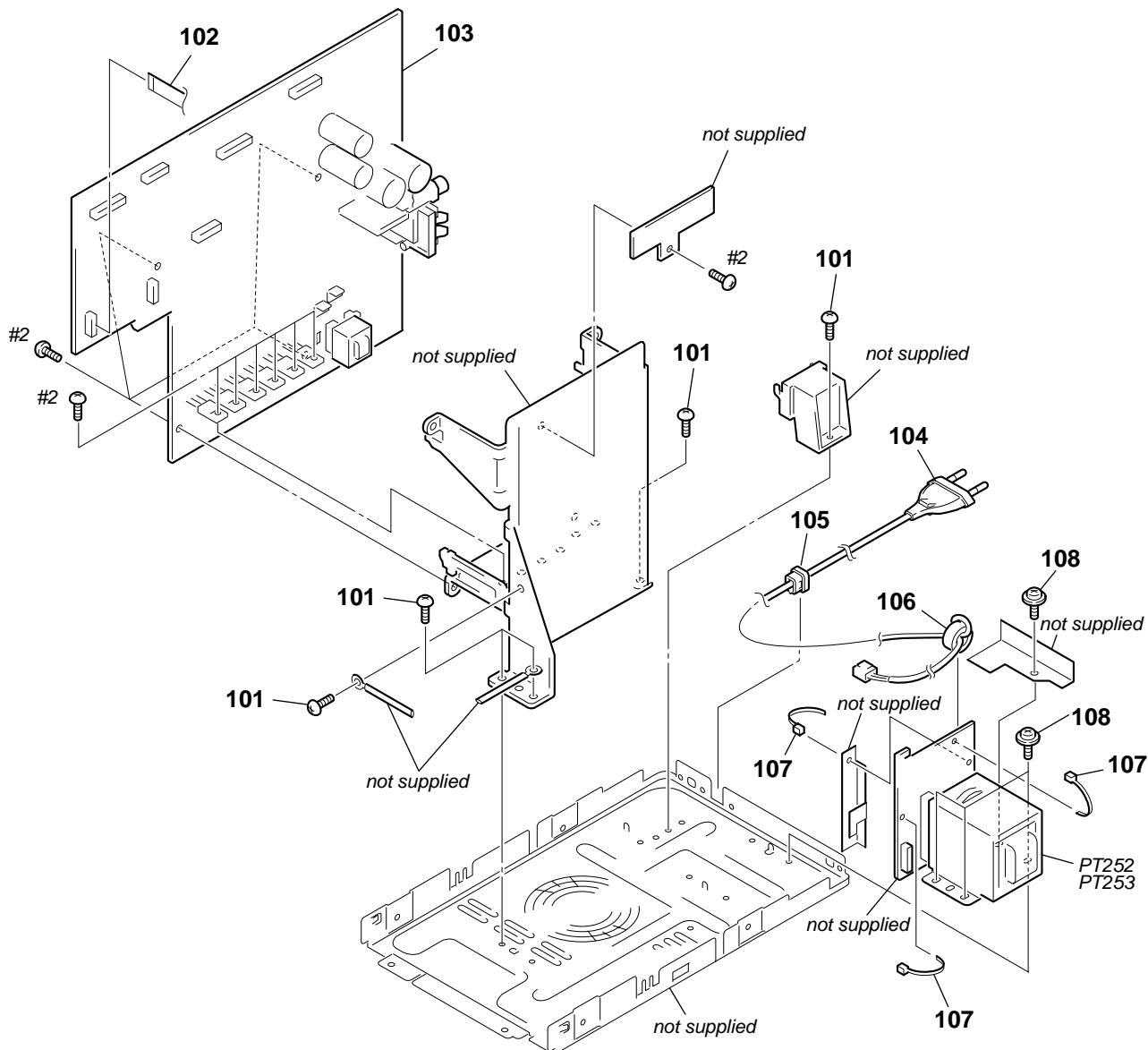
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	7-685-245-14	SCREW+KTP 3X6 TYPE2 NON-SLIT		5	1-693-626-11	TUNER (FM/AM) (AEP, UK)	
2	4-245-912-33	PANEL (L), SIDE (EXCEPT US, CND)		5	1-693-628-21	TUNER (FM/AM) (E51, SP)	
2	4-245-912-43	PANEL (L), SIDE (US, CND)		5	1-693-629-11	TUNER (FM/AM) (KR)	
3	4-245-911-33	PANEL, TOP (EXCEPT US, CND)		6	1-763-697-21	DC FAN	
3	4-245-911-43	PANEL, TOP (US, CND)		7	4-245-913-33	PANEL (R), SIDE (EXCEPT US, CND)	
4	1-823-669-11	WIRE (FLAT TYPE) (11 CORE)	(EXCEPT AEP, UK)	7	4-245-913-43	PANEL (R), SIDE (US, CND)	
4	1-828-895-11	WIRE (FLAT TYPE) (15 CORE) (AEP, UK)		#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
5	1-693-625-11	TUNER (FM/AM) (US, CND)		#3	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3	

9-2. FRONT SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	2-102-880-01	SPRING (CASS), TORSION A		65	4-242-175-01	HLDR, LOCK 2	
52	4-253-197-01	PANEL, CASSETTE		66	4-242-171-01	DAMPER 150 N	
53	4-253-191-01	WINDOW, CASSETTE		67	4-253-185-01	KEY, I-BASS	
54	4-253-198-01	BOX, CASSETTE		68	1-796-351-71	MECHANISM, SIGNAL CASSETTE	(CMAL1Z250A)
55	4-253-199-01	KNOB (VOL)		69	4-242-091-01	CUSHION	
56	4-245-223-11	KNOB, B/T		70	4-253-179-01	CABINET, FRONT (AEP, UK, KR)	
57	4-246-745-01	CASSETTE, SPRING		70	4-253-179-11	CABINET, FRONT (US, CND, E51, SP)	
58	4-253-180-01	PANEL, FRONT (EXCEPT AEP, UK)		71	4-245-158-01	EMBLEM	
58	4-253-180-11	PANEL, FRONT (AEP, UK)		72	A-4751-918-A	USB BOARD, COMPLETE	
59	4-253-190-01	WINDOW, DISPLAY		73	1-828-948-11	WIRE (FLAT TYPE) (7 CORE)	
60	3-229-336-11	SCREW, +BVWH TAPPING		#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
61	1-828-360-11	WIRE (FLAT TYPE) (19 CORE)		#3	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3	
62	A-4751-916-A	FRONT BOARD, COMPLETE		#4	7-685-245-14	SCREW +KTP 3X6 TYPE2 NON-SLIT	
63	4-242-172-01	PLATE, LOCK					
64	4-242-173-01	SPR-C, LOCK					

9-3. CHASSIS SECTION

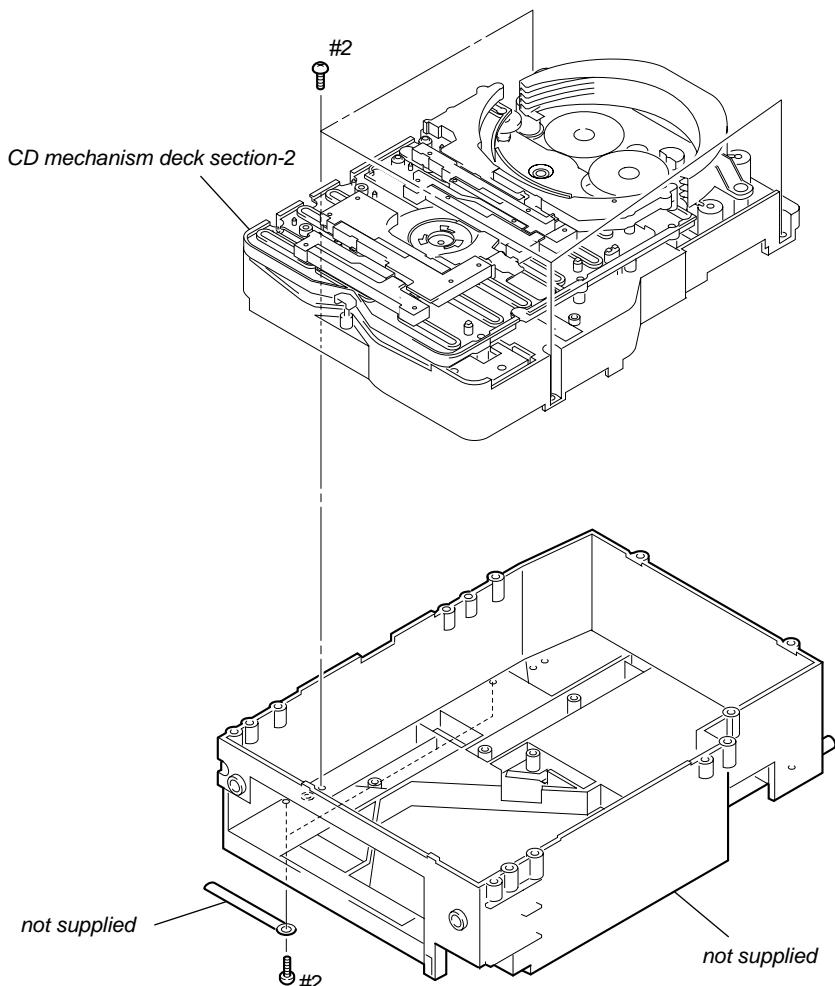


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	3-077-331-01	+BV3 (3-CR)		105	3-703-244-00	BUSHING (2104), CORD	
102	1-828-007-11	WIRE (FLAT TYPE) (8 CORE)		106	1-400-043-11	CORE, FERRITE (US, CND)	
103	A-1056-017-A	MAIN BOARD, COMPLETE (E51)		106	1-469-636-11	CORE, FERRITE (ESD-R-25SD)	
103	A-1060-715-A	MAIN BOARD, COMPLETE (SP)		107	4-059-585-01	TIE, CABLE	
103	A-1066-975-A	MAIN BOARD, COMPLETE (KR)		108	4-900-386-01	SCREW	
103	A-4751-184-A	MAIN BOARD, COMPLETE (AEP, UK)		△ PT252	1-443-217-11	TRANSFORMER, POWER (AEP, UK)	
103	A-4751-908-A	MAIN BOARD, COMPLETE (US, CND)		△ PT252	1-443-219-11	TRANSFORMER, POWER (US,CND)	
△ 104	1-769-079-41	CORD, POWER (KR)		△ PT253	1-443-220-11	TRANSFORMER, POWER (E51,SP,KR)	
△ 104	1-769-744-52	CORD, POWER (AEP, UK, E51, SP)		#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
△ 104	1-783-531-12	CORD, POWER (US, CND)					

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

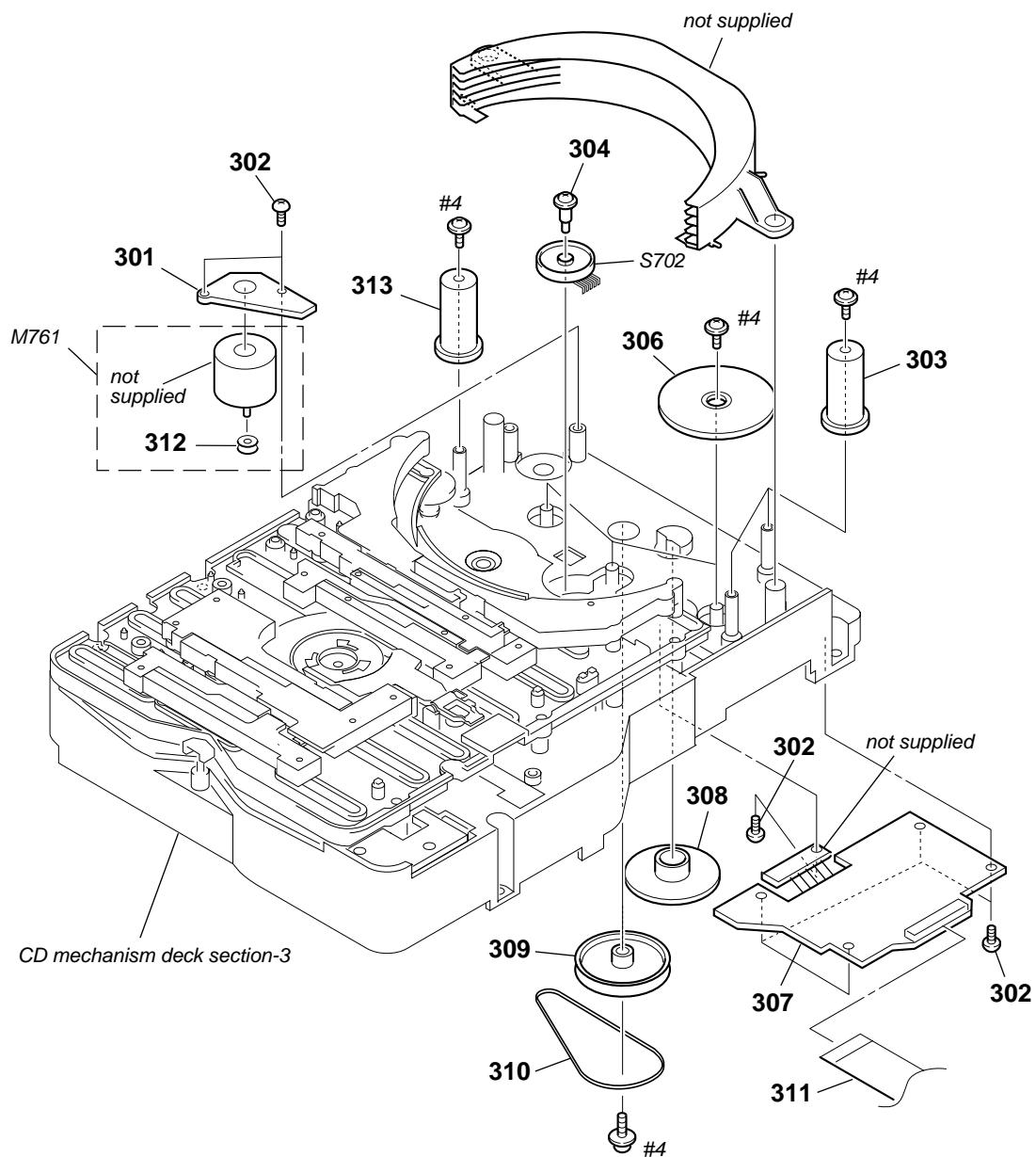
Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

9-4. CD MECHANISM DECK SECTION 1 (CDM69CV-F4BD81B2)



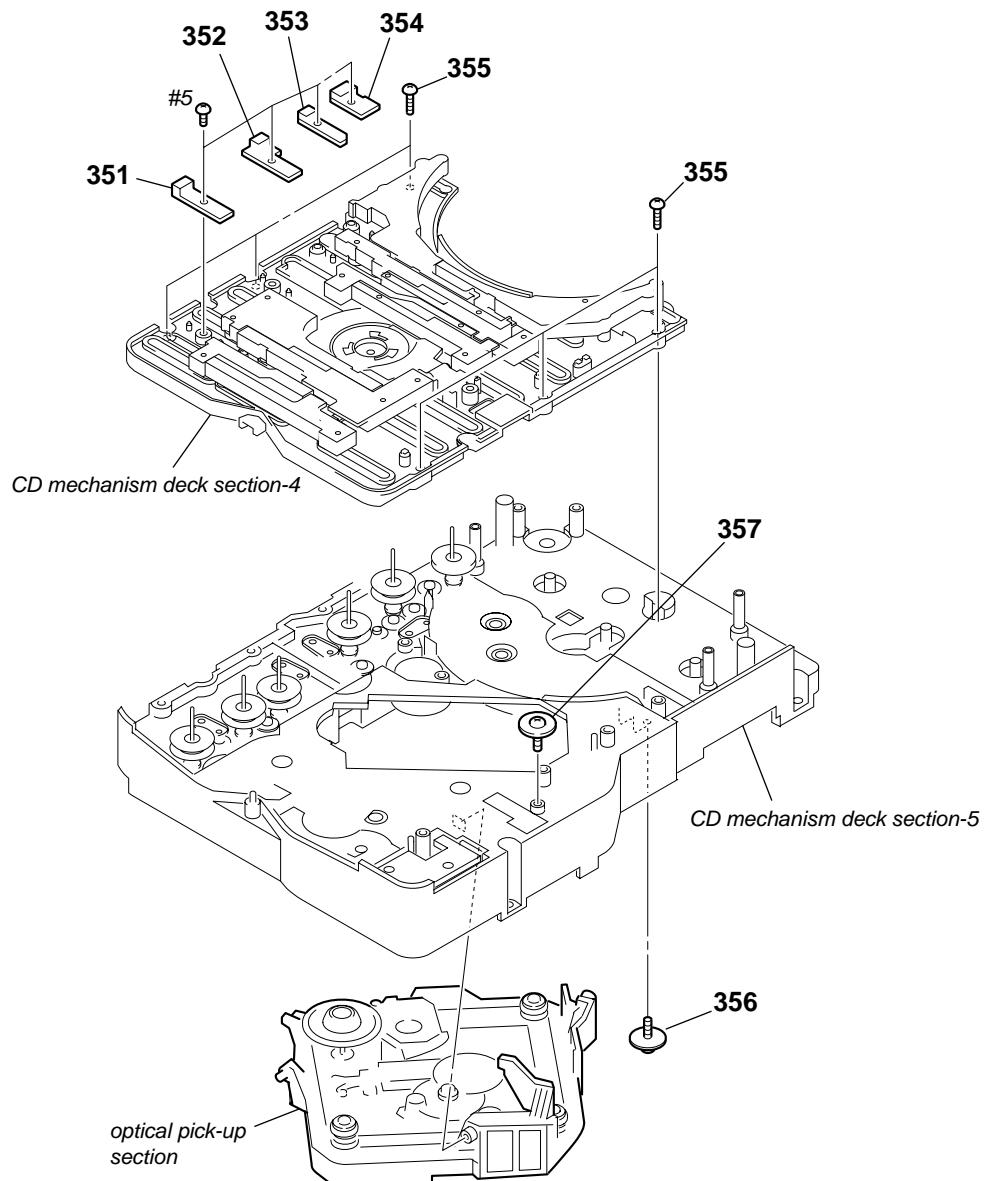
Ref. No.	Part No.	Description	Remark
#2	7-685-647-79	SCREW+BVTP 3X10 TYPE2 IT-3	

9-5. CD MECHANISM DECK SECTION 2 (CDM69CV-F4BD81B2)



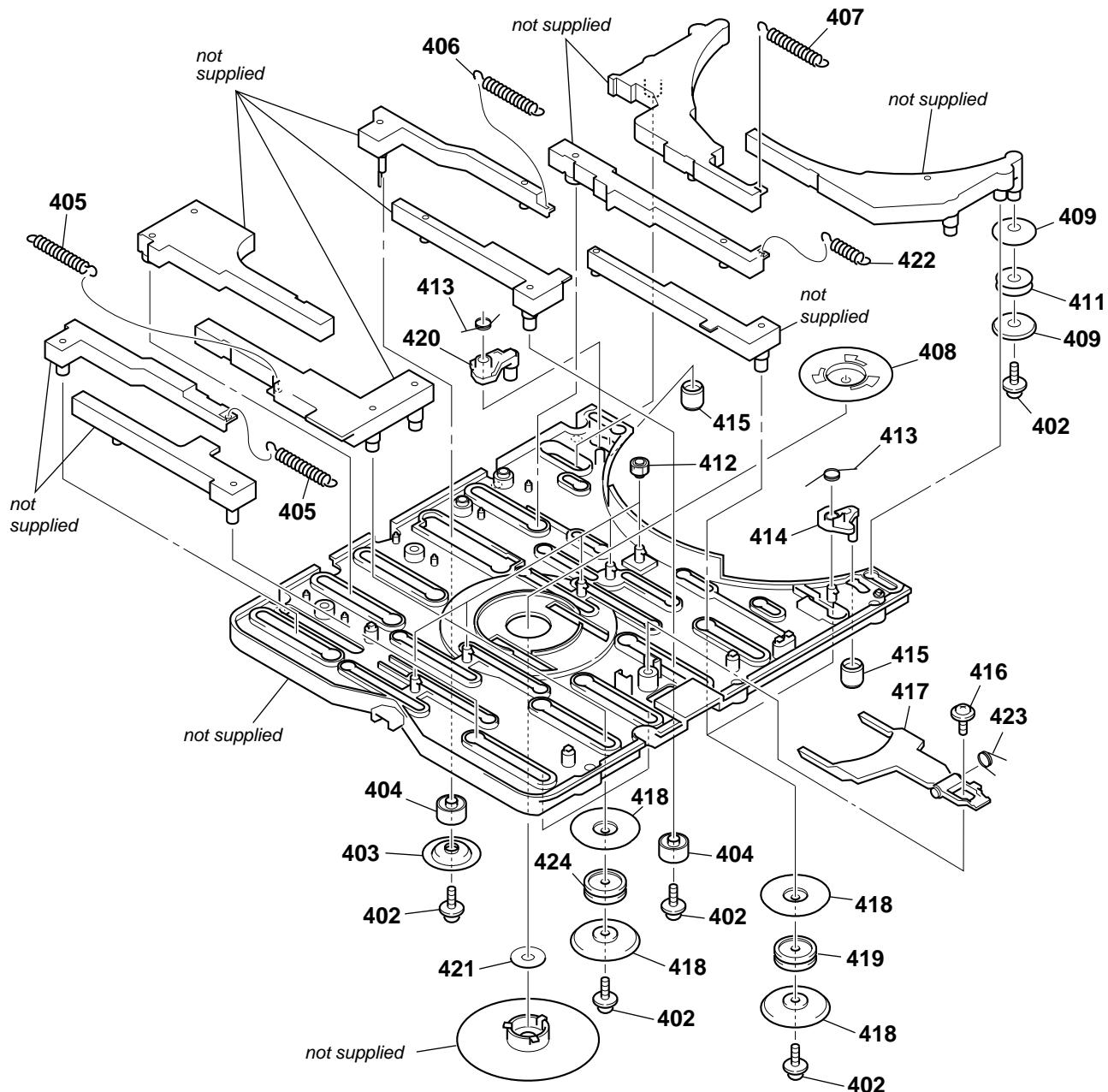
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301	1-686-725-13	STOCKER MOTOR BOARD		310	4-221-237-01	BELT (MODE)	
302	4-951-620-01	SCREW (2.6X8), +BVTP		311	1-828-404-11	WIRE (FLAT TYPE)(27 CORE)	
303	4-239-690-01	CAM (STOCKER U/D)		312	4-986-156-01	PULLEY, MOTOR	
304	4-239-618-02	SCREW (+PWH,2X6), STEP TAPPING		313	4-244-764-01	CAM (STOCKER V)	
306	4-239-687-01	GEAR (STOCKER COMMUNICATION)		M761	A-4735-953-A	MOTOR ASSY (STOCKER)	
307	A-4731-113-A	CONNECTOR BOARD, COMPLETE		S702	1-477-299-11	ENCODER, ROTARY (STOCKER POSITION)	
308	4-239-689-01	GEAR (STOCKER DECELERATION)		#4	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	
309	4-239-699-01	PULLEY					

9-6. CD MECHANISM DECK SECTION 3 (CDM69CV-F4BD81B2)



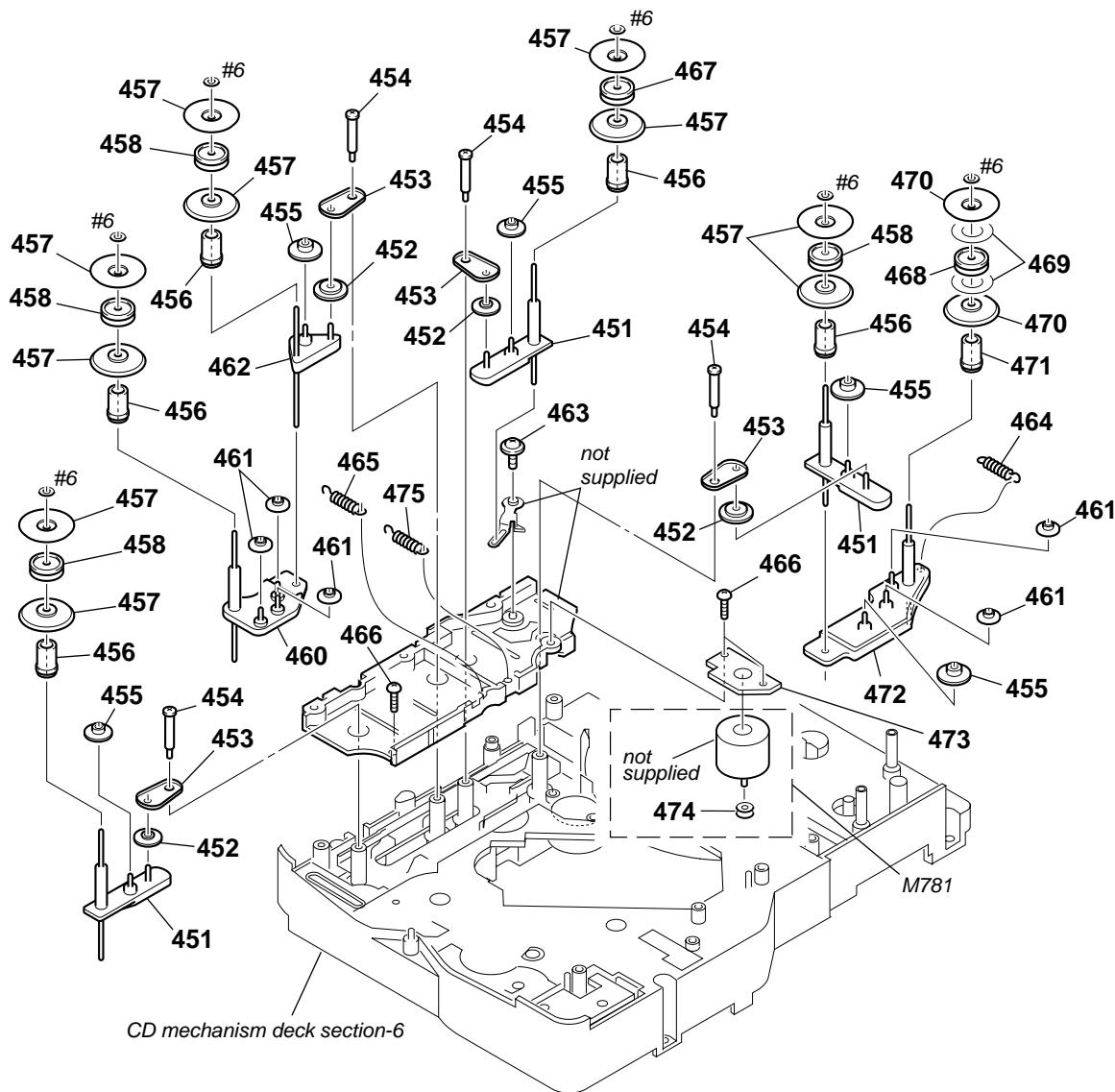
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
351	1-686-727-13	SW (1) BOARD		356	4-985-672-01	SCREW (+PTPWHM 2.6), FROATING	
352	1-686-728-13	SW (2) BOARD		357	4-227-899-01	SCREW (DIA,12), FROATING	
353	1-686-729-13	SW (3) BOARD		#5	7-685-533-14	SCREW +BTP 2.6X6 TYPE2 N-S	
354	1-686-730-13	SW (4) BOARD					
355	4-951-620-01	SCREW (2.6X8), +BVTP					

9-7. CD MECHANISM DECK SECTION 4 (CDM69CV-F4BD81B2)



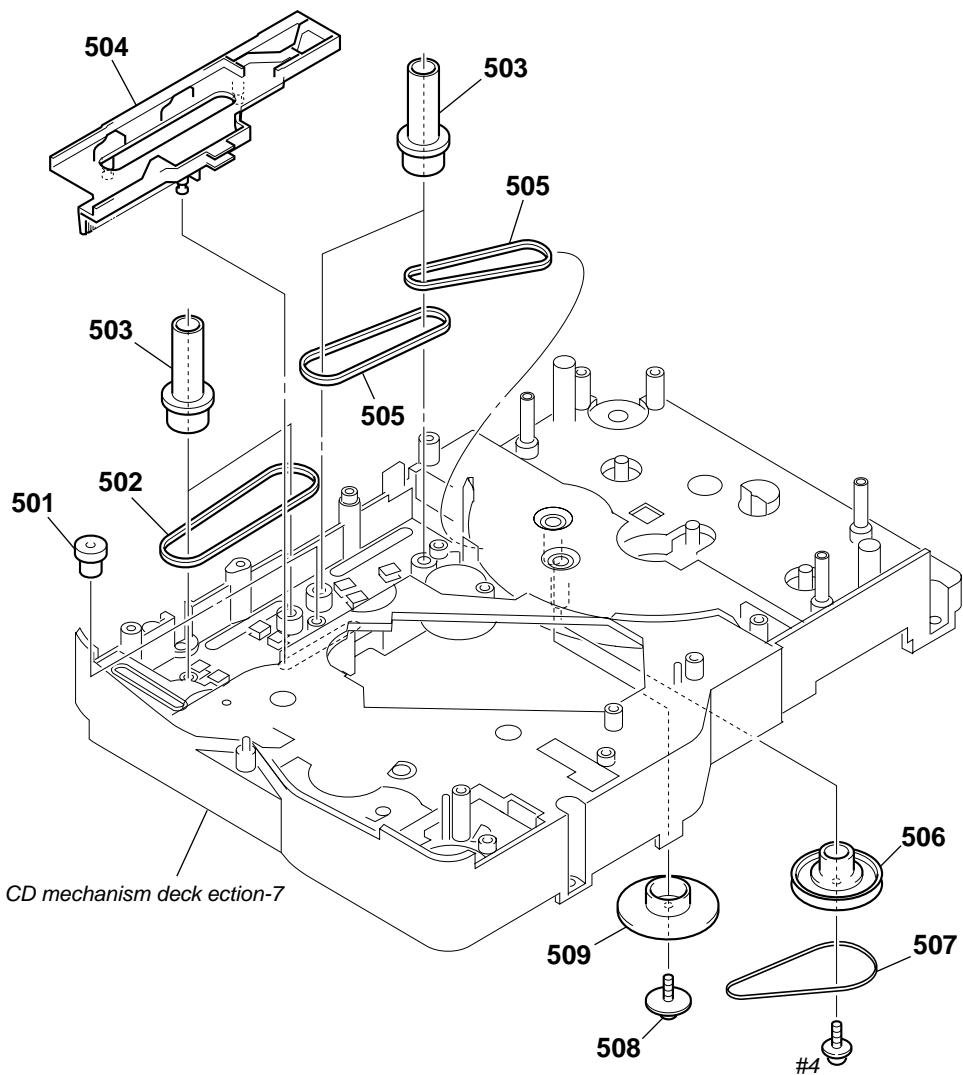
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
402	4-992-069-01	SCREW (+PTPWH) (M2) (DIA. 7)		414	4-240-039-01	LEVER (DISC STOPPER)	
403	4-239-648-01	PARASOL (ROLLER)		415	4-239-702-01	ROLLER (DISC STOPPER)	
404	4-239-646-01	ROLLER (ROLLER)		416	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
405	4-239-641-01	SPRING (1.2), TENSION		417	4-243-713-01	LEVER (LIFTER)	
406	4-239-642-01	SPRING (3), TENSION COIL		418	4-239-647-01	PARASOL (MAIN)	
407	4-239-679-01	SPRING (5), TENSION COIL		419	4-243-916-01	ROLLER (S), RUBBER	
408	4-243-714-01	PULLEY (B) (BU30), CHUCKING		420	4-241-599-01	LEVER (SUPPORT)	
409	4-239-649-01	PARASOL (STOCKER)		421	4-228-414-01	BRACKET (YOKE)	
411	4-244-035-01	ROLLER (STOCKER), RUBBER		422	4-239-643-01	SPRING (4), TENSION COIL	
412	4-239-640-01	PINION (SLIDER)		423	4-243-914-01	SPRING (LIFTER), TORSION	
413	4-243-291-01	SPRING, TORSION		424	4-244-032-01	ROLLER, RUBBER	

9-8. CD MECHANISM DECK SECTION 5 (CDM69CV-F4BD81B2)



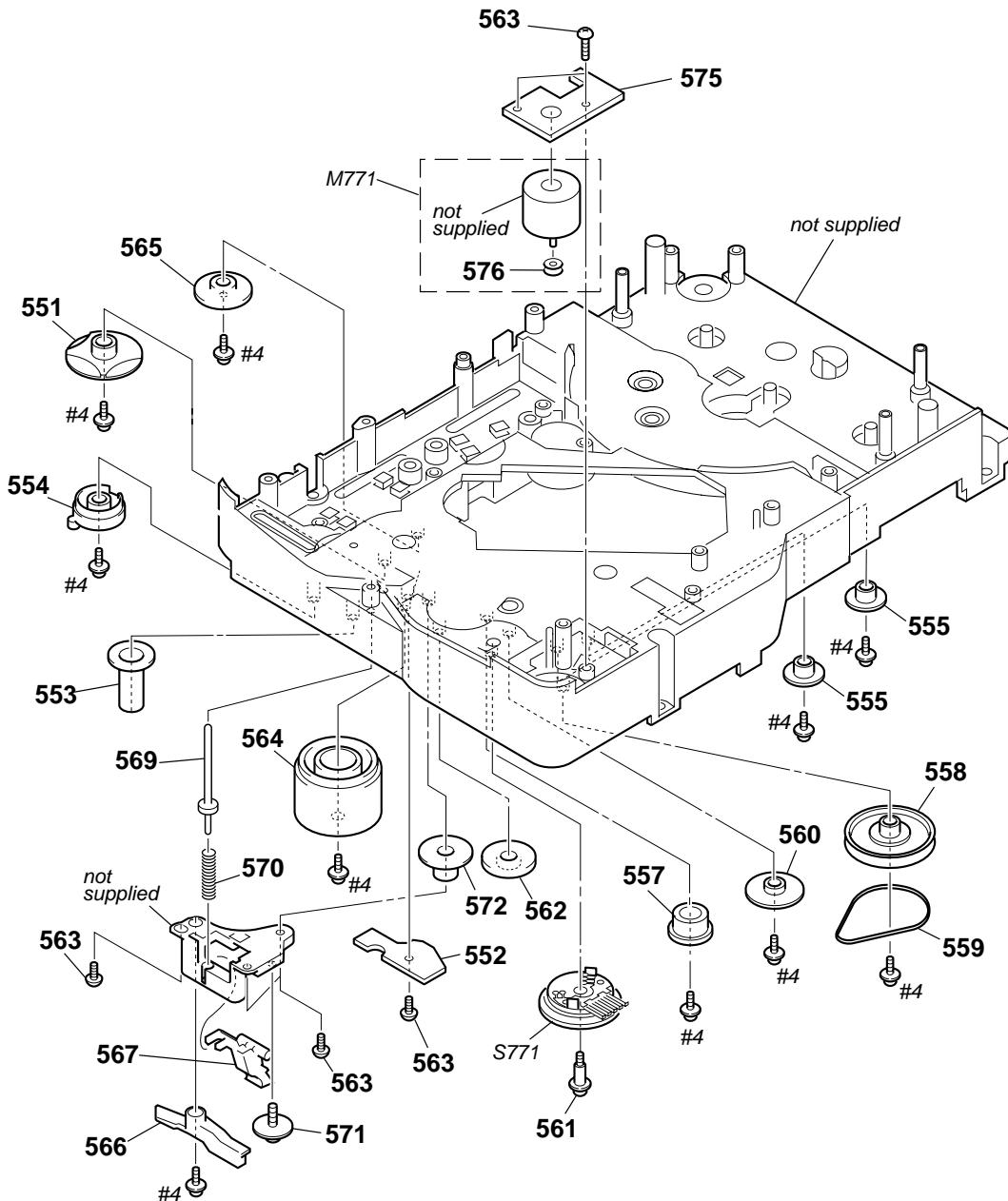
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
451	X-4954-626-1	LEVER (ROLLER) ASSY		465	4-240-041-01	SPRING (SLIDER 2), TENSION	
452	4-239-666-01	GEAR		466	4-951-620-01	SCREW (2.6X8), +BVTP	
453	4-239-668-01	LEVER (CENTER)		467	4-243-916-01	ROLLER (S), RUBBER	
454	4-239-652-02	SCREW (ROLLER), STEP		468	4-244-035-01	ROLLER (STOCKER), RUBBER	
455	4-239-669-01	GEAR (ROLLER COMMUNICATION)		469	4-241-209-01	HEET, ADHESIVE	
456	4-239-667-01	GEAR (ROLLER CENTER)		470	4-239-649-01	PARASOL (STOCKER)	
457	4-239-647-01	PARASOL (MAIN)		471	4-239-671-01	GEAR (ROLLER 5 CENTER)	
458	4-244-032-01	ROLLER, RUBBER		472	X-4954-627-1	BASE (SLIDER 5) ASSY	
460	X-4954-622-1	BASE (SLIDER 2) ASSY		473	1-686-726-13	ROLLER MOTOR BOARD	
461	4-239-670-01	GEAR (ROLLER 5 COMMUNICATION)		474	4-986-156-01	PULLEY, MOTOR	
462	X-4954-624-1	LEVER (SLIDER 4) ASSY		475	4-244-162-01	SPRING (SLIDER 4), TENSION	
463	4-992-069-01	SCREW (+PTPWH)(M2)(DIA. 7)		M781	A-4735-953-A	MOTOR ASSY (ROLLER)	
464	4-240-981-01	SPRING (BASE SLIDER 5), TENSION		#6	7-623-921-01	RING, RETAINING, CAPSTAN	

9-9. CD MECHANISM DECK SECTION 6 (CDM69CV-F4BD81B2)



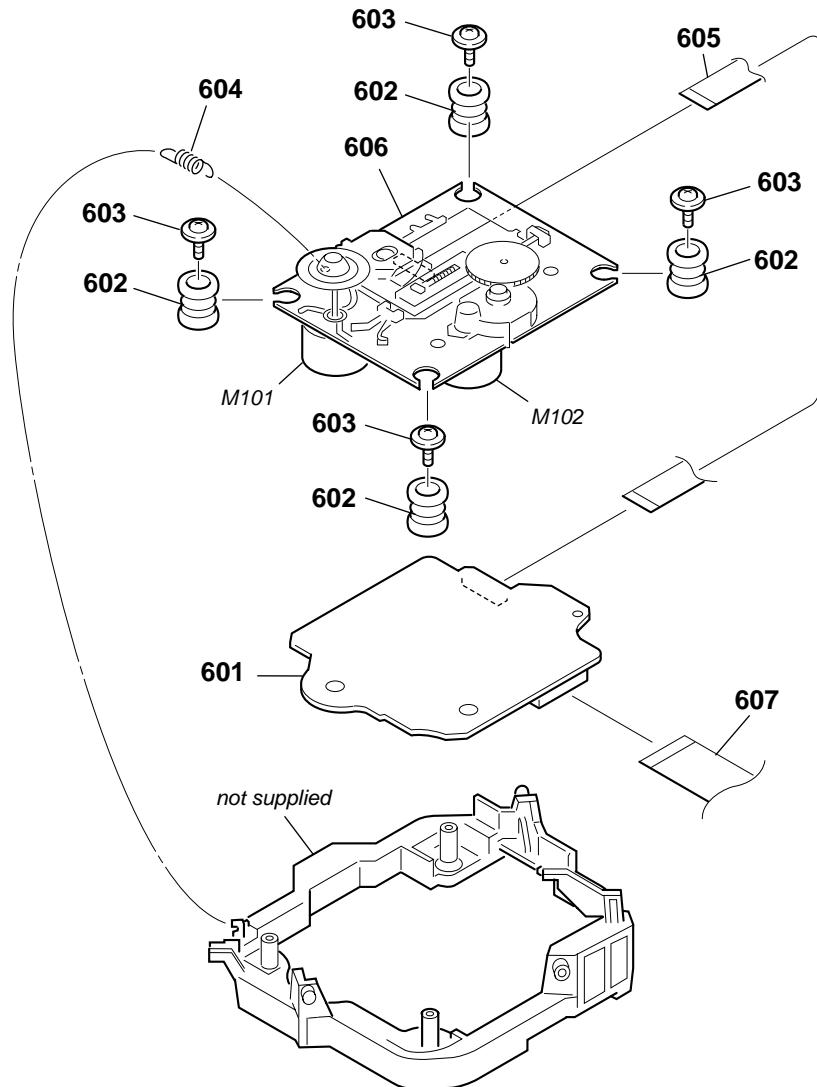
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
501	4-240-020-01	GEAR (TIMING)		506	4-239-699-01	PULLEY	
502	4-239-708-02	BELT (FRONT), TIMING		507	4-247-349-02	BELT (ROLLER V)	
503	4-239-697-01	GEAR (CENTER)		508	4-227-899-01	SCREW (DIA. 12), FROATING	
504	X-4955-157-1	SLIDER (MODE CAM V) ASSY		509	4-239-686-01	GEAR (ROLLER DECELERATION)	
505	4-239-706-02	BELT (REAR), TIMING		#4	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	

9-10. CD MECHANISM DECK SECTION 7 (CDM69CV-F4BD81B2)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
551	4-239-693-02	CAM (GEAR)		565	4-239-694-01	GEAR (MODE CAM)	
552	1-686-723-13	SENSOR BOARD		566	4-241-731-01	SHUTTER (A), LEVER	
553	4-239-696-01	GEAR (EJECT LOCK)		567	4-241-732-01	SHUTTER (B), LEVER	
554	4-239-695-02	CAM (EJECT LOCK)		569	4-241-734-01	SHAFT (SHUTTER)	
555	4-240-019-01	GEAR (MODE 5)		570	4-241-735-01	SPRING (SHUTTER), COMPRESSION	
557	4-243-682-01	GEAR (MODE C)		571	4-985-672-01	SCREW (+PTPWHM2.6), FROATING	
558	4-239-683-01	PULLEY (MODE DECELERATION)		572	4-243-680-01	GEAR (MODE A)	
559	4-243-702-01	BELT (MODE V)		575	1-686-724-13	MODE MOTOR BOARD	
560	4-243-683-01	GEAR (MODE D)		576	4-986-156-01	PULLEY, MOTOR	
561	4-239-618-02	SCREW (+PWH,2X6), STEP TAPPING		M771	A-4735-953-A	MOTOR ASSY (MODE)	
562	4-243-681-01	GEAR (MODE B)		S771	1-477-300-11	ENCODER, ROTARY (MODE)	
563	4-951-620-01	SCREW (2.6X8), +BVTP		#4	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	
564	4-239-692-02	CAM (BU U/D)					

9-11. OPTICAL PICK-UP SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
601	A-1067-262-A	BD BOARD, COMPLETE		605	1-827-992-11	WIRE (FLAT TYPE)(16 CORE)	
602	4-992-054-11	RUBBER, VIBRATION PROOF		△ 606	8-820-252-01	OPTICAL PICK-UP (KSM-215CFP/C2NP) (included in M101, M102)	
603	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING		607	1-828-403-11	WIRE (FLAT TYPE)(27 CORE)	
604	4-253-308-01	SPRING (215V), TENSION					

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 10

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- **CAPACITORS:**
uF: μ F
- **COILS**
uH: μ H

- **RESISTORS**
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
- Accessories are given in the last of this parts list.
- Abbreviation

CND	: Canadian model
E51	: Chilean and Peruvian model
KR	: Korean model
SP	: Singapore model

When indicating parts by reference number, please include the board name.

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
	A-1067-262-A	BD BOARD, COMPLETE				C195	1-164-360-11	CERAMIC CHIP	0.1uF	16V	
		*****				C196	1-164-360-11	CERAMIC CHIP	0.1uF	16V	
		< CAPACITOR >				C201	1-128-995-21	ELECT CHIP	100uF	20%	10V
						C203	1-128-995-21	ELECT CHIP	100uF	20%	10V
C10	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	C209	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C11	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	C210	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C14	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C211	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C15	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C212	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C16	1-115-156-11	CERAMIC CHIP	1uF		10V	C213	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C17	1-126-246-11	ELECT CHIP	220uF	20%	4V	C251	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C18	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C252	1-164-360-11	CERAMIC CHIP	0.1uF	16V	
C111	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	C255	1-164-360-11	CERAMIC CHIP	0.1uF	16V	
C112	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	C257	1-164-360-11	CERAMIC CHIP	0.1uF	16V	
C113	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	C258	1-164-360-11	CERAMIC CHIP	0.1uF	16V	
C114	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	C259	1-164-360-11	CERAMIC CHIP	0.1uF	16V	
C115	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C260	1-128-394-11	ELECT CHIP	220uF	20%	10V
C116	1-128-995-21	ELECT CHIP	100uF	20%	10V	C302	1-164-360-11	CERAMIC CHIP	0.1uF	16V	
C122	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C303	1-164-360-11	CERAMIC CHIP	0.1uF	16V	
C123	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C305	1-126-246-11	ELECT CHIP	220uF	20%	4V
C124	1-162-959-11	CERAMIC CHIP	330PF	5%	50V	C306	1-164-360-11	CERAMIC CHIP	0.1uF	16V	
C125	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C307	1-164-360-11	CERAMIC CHIP	0.1uF	16V	
C131	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C308	1-126-208-21	ELECT CHIP	47uF	20%	4V
C132	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V	C309	1-164-360-11	CERAMIC CHIP	0.1uF	16V	
C133	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C310	1-164-360-11	CERAMIC CHIP	0.1uF	16V	
C134	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C311	1-164-360-11	CERAMIC CHIP	0.1uF	16V	
C141	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C312	1-164-360-11	CERAMIC CHIP	0.1uF	16V	
C142	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V	C313	1-164-360-11	CERAMIC CHIP	0.1uF	16V	
C151	1-128-995-21	ELECT CHIP	100uF	20%	10V	C314	1-126-208-21	ELECT CHIP	47uF	20%	4V
C161	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C315	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C162	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C316	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C163	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C317	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C171	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C318	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C172	1-162-920-11	CERAMIC CHIP	27PF	5%	50V	C320	1-216-864-11	SHORT CHIP	0		
C174	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C401	1-216-864-11	SHORT CHIP	0		
C181	1-164-360-11	CERAMIC CHIP	0.1uF		16V		< CONNECTOR >				
C182	1-164-360-11	CERAMIC CHIP	0.1uF		16V						
C183	1-124-778-00	ELECT CHIP	22uF	20%	6.3V	CN101	1-770-425-11	CONNECTOR, FFC/FPC 16P			
C184	1-124-778-00	ELECT CHIP	22uF	20%	6.3V	CN201	1-818-350-11	CONNECTOR (FFC) 27P			
C185	1-164-315-11	CERAMIC CHIP	470PF	5%	50V		< FERRITE BEAD >				
C186	1-164-315-11	CERAMIC CHIP	470PF	5%	50V						
C194	1-164-360-11	CERAMIC CHIP	0.1uF		16V	FB301	1-500-445-21	FERRITE, EMI (SMD) (2012)			

BD	CONNECTOR
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Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks							
< IC >																		
IC101	8-752-425-12	IC	CXD3059AR			R404	1-216-809-11	METAL CHIP	100	5%	1/10W							
IC251	6-705-808-01	IC	BA5947FM			R405	1-216-809-11	METAL CHIP	100	5%	1/10W							
IC301	6-705-365-01	IC	TC94A34FG-002			R406	1-216-809-11	METAL CHIP	100	5%	1/10W							
IC303	6-705-807-01	IC	BH15FB1WG			R407	1-216-809-11	METAL CHIP	100	5%	1/10W							
< TRANSISTOR >																		
Q10	6-550-363-01	TRANSISTOR	2SB1690KT146			R408	1-216-809-11	METAL CHIP	100	5%	1/10W							
< RESISTOR >																		
R10	1-216-791-11	METAL CHIP	3.3	5%	1/10W	R409	1-216-809-11	METAL CHIP	100	5%	1/10W							
R11	1-216-864-11	SHORT CHIP	0			R410	1-216-809-11	METAL CHIP	100	5%	1/10W							
R12	1-216-845-11	METAL CHIP	100K	5%	1/10W	R411	1-216-809-11	METAL CHIP	100	5%	1/10W							
R13	1-218-446-11	METAL CHIP	1	5%	1/10W	R412	1-216-809-11	METAL CHIP	100	5%	1/10W							
R111	1-216-821-11	METAL CHIP	1K	5%	1/10W	R419	1-216-809-11	METAL CHIP	100	5%	1/10W							
< VIBRATOR >																		
						X171	1-767-408-21	VIBRATOR, CRYSTAL (16.9344MHz)										

A-4731-113-A CONNECTOR BOARD, COMPLETE																		

< CAPACITOR >																		
R132	1-216-833-11	METAL CHIP	10K	5%	1/10W	C711	1-126-795-11	ELECT	10uF	20%	50V							
R133	1-216-848-11	METAL CHIP	180K	5%	1/10W	C751	1-164-159-21	CERAMIC	0.1uF		50V							
R141	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	C752	1-164-159-21	CERAMIC	0.1uF		50V							
R142	1-216-821-11	METAL CHIP	1K	5%	1/10W	C753	1-164-159-21	CERAMIC	0.1uF		50V							
R143	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	C754	1-164-159-21	CERAMIC	0.1uF		50V							
R151	1-216-864-11	SHORT CHIP	0			C755	1-164-159-21	CERAMIC	0.1uF		50V							
R162	1-216-841-11	METAL CHIP	47K	5%	1/10W	C756	1-164-159-21	CERAMIC	0.1uF		50V							
R163	1-216-809-11	METAL CHIP	100	5%	1/10W	C758	1-164-159-21	CERAMIC	0.1uF		50V							
R165	1-216-864-11	SHORT CHIP	0			C761	1-162-306-11	CERAMIC	0.01uF	20%	16V							
R171	1-216-817-11	METAL CHIP	470	5%	1/10W	C762	1-164-159-21	CERAMIC	0.1uF		50V							
R172	1-216-857-11	METAL CHIP	1M	5%	1/10W	C763	1-164-159-21	CERAMIC	0.1uF		50V							
R173	1-216-295-91	SHORT CHIP	0			C764	1-164-159-21	CERAMIC	0.1uF		50V							
R181	1-216-809-11	METAL CHIP	100	5%	1/10W	C765	1-164-159-21	CERAMIC	0.1uF		50V							
R182	1-216-809-11	METAL CHIP	100	5%	1/10W	C766	1-164-159-21	CERAMIC	0.1uF		50V							
R191	1-216-864-11	SHORT CHIP	0			C767	1-164-159-21	CERAMIC	0.1uF		50V							
R201	1-500-445-21	FERRITE, EMI (SMD) (2012)				C768	1-164-159-21	CERAMIC	0.1uF		50V							
R203	1-216-864-11	SHORT CHIP	0			C769	1-164-159-21	CERAMIC	0.1uF		50V							
R204	1-500-445-21	FERRITE, EMI (SMD) (2012)				C771	1-162-306-11	CERAMIC	0.01uF	20%	16V							
R205	1-216-864-11	SHORT CHIP	0			C781	1-162-306-11	CERAMIC	0.01uF	20%	16V							
< CONNECTOR >																		
R251	1-216-833-11	METAL CHIP	10K	5%	1/10W	CN701	1-779-564-21	CONNECTOR, FFC (LIF (NON-ZIF)) 27P										
R252	1-216-837-11	METAL CHIP	22K	5%	1/10W	CN702	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P										
R253	1-216-833-11	METAL CHIP	10K	5%	1/10W	CN703	1-785-328-11	PIN, CONNECTOR (LIGHT ANGLE) 2P										
R301	1-216-845-11	METAL CHIP	100K	5%	1/10W	* CN710	1-506-486-11	PIN, CONNECTOR 7P										
R302	1-216-833-11	METAL CHIP	10K	5%	1/10W	< DIODE >												
R303	1-216-845-11	METAL CHIP	100K	5%	1/10W	D701	8-719-921-44	DIODE	MTZJ-5.1C									
R305	1-216-845-11	METAL CHIP	100K	5%	1/10W	D711	8-719-109-92	DIODE	RD6.2ESB1									
R306	1-216-864-11	SHORT CHIP	0			D721	8-719-982-11	DIODE	MTZJ-4.3B									
R307	1-216-833-11	METAL CHIP	10K	5%	1/10W	< IC >												
R313	1-216-813-11	METAL CHIP	220	5%	1/10W	IC701	8-759-598-69	IC	BA6956AN									
R351	1-216-809-11	METAL CHIP	100	5%	1/10W	IC711	8-759-598-69	IC	BA6956AN									
R352	1-216-809-11	METAL CHIP	100	5%	1/10W	IC721	8-759-598-69	IC	BA6956AN									
R353	1-216-809-11	METAL CHIP	100	5%	1/10W	< TRANSISTOR >												
R401	1-216-809-11	METAL CHIP	100	5%	1/10W	R403	1-216-809-11	METAL CHIP	100	5%	1/10W	Q731	8-729-029-66	TRANSISTOR	DTC114ESA			

CONNECTOR	FRONT
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Ref. No.	Part No.	Description			Remarks		Ref. No.	Part No.	Description			Remarks	
< RESISTOR >							< RESISTOR >						
R701	1-249-415-11	CARBON	680	5%	1/4W		R795	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R702	1-247-807-31	CARBON	100	5%	1/4W		R903	1-216-805-11	METAL CHIP	47	5%	1/10W	
R711	1-249-415-11	CARBON	680	5%	1/4W		R904	1-216-805-11	METAL CHIP	47	5%	1/10W	
R712	1-247-807-31	CARBON	100	5%	1/4W		R925	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R721	1-249-415-11	CARBON	680	5%	1/4W		R926	1-216-838-11	METAL CHIP	27K	5%	1/10W	
R722	1-247-807-31	CARBON	100	5%	1/4W		R927	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	
R731	1-247-806-11	CARBON	91	5%	1/4W		R928	1-216-797-11	METAL CHIP	10	5%	1/10W	
R732	1-249-417-11	CARBON	1K	5%	1/4W		R929	1-216-817-11	METAL CHIP	470	5%	1/10W	
R733	1-249-429-11	CARBON	10K	5%	1/4W		R930	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R734	1-249-429-11	CARBON	10K	5%	1/4W		R931	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	

A-4751-916-A FRONT BOARD, COMPLETE							R932	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	
*****							R934	1-216-838-11	METAL CHIP	27K	5%	1/10W	
4-249-384-01 HOLDER (LCD)							R935	1-216-841-11	METAL CHIP	47K	5%	1/10W	
< CAPACITOR >							R936	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
C902	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		R937	1-216-821-11	METAL CHIP	1K	5%	1/10W	
C907	1-165-908-11	CERAMIC CHIP	1uF	10%	10V		R938	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	
C908	1-165-908-11	CERAMIC CHIP	1uF	10%	10V		R939	1-216-838-11	METAL CHIP	27K	5%	1/10W	
C909	1-165-908-11	CERAMIC CHIP	1uF	10%	10V		R940	1-216-841-11	METAL CHIP	47K	5%	1/10W	
C927	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		R941	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
C928	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		R942	1-216-821-11	METAL CHIP	1K	5%	1/10W	
C929	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		R943	1-216-166-00	RES-CHIP	47	5%	1/8W	
C960	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		R944	1-216-841-11	METAL CHIP	47K	5%	1/10W	
C961	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		R946	1-216-813-11	METAL CHIP	220	5%	1/10W	
C986	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		R947	1-216-797-11	METAL CHIP	10	5%	1/10W	
C987	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		R948	1-216-815-11	METAL CHIP	330	5%	1/10W	
C988	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		R950	1-216-817-11	METAL CHIP	470	5%	1/10W	
C997	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		R952	1-216-819-11	METAL CHIP	680	5%	1/10W	
< CONNECTOR >							R954	1-216-821-11	METAL CHIP	1K	5%	1/10W	
CN905	1-779-556-21	CONNECTOR, FFC (LIF (NON-ZIF)) 19P					R955	1-216-821-11	METAL CHIP	1K	5%	1/10W	
< DIODE >							R956	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
D901	6-500-588-01	DIODE	SLI-325URCT31W (L/)				R957	1-216-821-11	METAL CHIP	1K	5%	1/10W	
D902	8-719-075-50	DIODE	SELS6B14C-TP5 (i-Bass)				R958	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
D903	8-719-056-78	DIODE	UDZ-TE-17-4.3B				R961	1-216-813-11	METAL CHIP	220	5%	1/10W	
D904	8-719-914-42	DIODE	DA204K				R963	1-216-815-11	METAL CHIP	330	5%	1/10W	
D905	6-500-943-01	DIODE	SELU1910CXM-SLF38				R965	1-216-817-11	METAL CHIP	470	5%	1/10W	
D906	6-500-943-01	DIODE	SELU1910CXM-SLF38				R967	1-216-819-11	METAL CHIP	680	5%	1/10W	
D907	6-500-943-01	DIODE	SELU1910CXM-SLF38				R969	1-216-821-11	METAL CHIP	1K	5%	1/10W	
< IC >							R971	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
IC902	6-600-174-01	IC	RPM7240-H4 (R)				R973	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
< LIQUID CRYSTAL DISPLAY >							R975	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
LCD901	1-805-572-11	DISPLAY PANEL, LIQUID CRYSTAL					R976	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
< TRANSISTOR >							R977	1-216-833-11	METAL CHIP	10K	5%	1/10W	
Q994	8-729-027-46	TRANSISTOR	DTC114YKA-T146				R979	1-216-178-00	RES-CHIP	150	5%	1/8W	
Q995	8-729-027-46	TRANSISTOR	DTC114YKA-T146				R981	1-216-198-91	RES-CHIP	1K	5%	1/8W	
Q996	8-729-120-28	TRANSISTOR	2SC1623-L5L6				R983	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
							R984	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
							R985	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
							R986	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
							R987	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
							R988	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
							R989	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
							R990	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
							R991	1-216-851-11	METAL CHIP	330K	5%	1/10W	
							R992	1-216-853-11	METAL CHIP	470K	5%	1/10W	

FRONT	HP	MAIN
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Ref. No.	Part No.	Description		Remarks		Ref. No.	Part No.	Description		Remarks	
R993	1-216-864-11	SHORT CHIP	0			C004	1-131-992-91	CERAMIC CHIP	100000PF	35V	
R994	1-216-819-11	METAL CHIP	680	5%	1/10W	C005	1-131-992-91	CERAMIC CHIP	100000PF	35V	
		< SWITCH >				C006	1-131-992-91	CERAMIC CHIP	100000PF	35V	
S921	1-478-642-11	ENCODER, ROTARY (VOLUME)				C009	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
S922	1-418-859-21	ENCODER, ROTARY (BASS)				C010	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
S923	1-418-859-21	ENCODER, ROTARY (TREBLE)				C011	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
S924	1-771-410-21	SWITCH, TACTILE (I/O)				C012	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
S925	1-771-410-21	SWITCH, TACTILE (DISPLAY)				C013	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
S926	1-771-410-21	SWITCH, TACTILE (▲ CD)				C014	1-126-933-11	ELECT	100uF	20%	16V
S927	1-771-410-21	SWITCH, TACTILE (DISC 1)				C015	1-126-933-11	ELECT	100uF	20%	16V
S928	1-771-410-21	SWITCH, TACTILE (DISC 2)				C016	1-162-974-11	CERAMIC CHIP	0.01uF	50V	
S929	1-771-410-21	SWITCH, TACTILE (DISC 3)				C017	1-126-964-11	ELECT	10uF	20%	50V
S930	1-771-410-21	SWITCH, TACTILE (DISC 4)				C018	1-126-933-11	ELECT	100uF	20%	16V
S931	1-771-410-21	SWITCH, TACTILE (DISC 5)				C019	1-128-550-11	ELECT	2200uF	20%	50V
S932	1-771-410-21	SWITCH, TACTILE (■)				C020	1-128-550-11	ELECT	2200uF	20%	50V
S933	1-771-410-21	SWITCH, TACTILE (● REC PAUSE/START)				C021	1-128-548-11	ELECT	4700uF	20%	25V
S934	1-771-410-21	SWITCH, TACTILE (CD SYNC)				C022	1-128-548-11	ELECT	4700uF	20%	25V
S935	1-771-410-21	SWITCH, TACTILE (TAPE ▲ ▼)				C023	1-126-933-11	ELECT	100uF	20%	16V
S936	1-771-410-21	SWITCH, TACTILE (TUNER BAND)				C027	1-126-933-11	ELECT	100uF	20%	16V
S937	1-771-410-21	SWITCH, TACTILE (FUNCTION)				C028	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
S938	1-771-410-21	SWITCH, TACTILE (CD ▶ II)				C029	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
S939	1-771-410-21	SWITCH, TACTILE (TUNING -)				C030	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
S940	1-771-410-21	SWITCH, TACTILE (YUNING +)				C031	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
S941	1-771-410-21	SWITCH, TACTILE (i-Bass)				C032	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
S942	1-771-410-21	SWITCH, TACTILE (DIRECTION)				C033	1-126-961-11	ELECT	2.2uF	20%	50V

HP BOARD											

< CONNECTOR >											
* CN203	1-564-520-11	PLUG, CONNECTOR 5P				C061	1-126-947-11	ELECT	47uF	20%	35V
< JACK >											
J202	1-816-219-11	JACK, HEADPHONE (PHONES)				C083	1-126-941-11	ELECT	470uF	20%	25V
< RESISTOR >											
R259	1-260-320-11	CARBON	220	5%	1/2W	C097	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
R260	1-260-320-11	CARBON	220	5%	1/2W	C101	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
R261	1-260-320-11	CARBON	220	5%	1/2W	C102	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
R262	1-260-320-11	CARBON	220	5%	1/2W	C103	1-126-960-11	ELECT	1uF	20%	50V
R263	1-216-206-00	RES-CHIP	2.2K	5%	1/8W	C104	1-126-960-11	ELECT	1uF	20%	50V
R264	1-216-206-00	RES-CHIP	2.2K	5%	1/8W	C107	1-126-947-11	ELECT	47uF	20%	35V

A-1056-017-A MAIN BOARD, COMPLETE (E51)											
A-1060-715-A MAIN BOARD, COMPLETE (SP)											
A-1066-975-A MAIN BOARD, COMPLETE (KR)											
A-4751-184-A MAIN BOARD, COMPLETE (AEP, UK)											
A-4751-908-A MAIN BOARD, COMPLETE (US, CND)											

7-685-647-79 SCREW +BVTP 3X10 TYPE2 IT-3											
< CAPACITOR >											
C003	1-131-992-91	CERAMIC CHIP	100000PF		35V	C119	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

< RESISTOR >											
C147 1-127-888-11 CERAMIC											
C148 1-107-826-11 CERAMIC CHIP											
C201 1-128-552-51 ELECT											

MAIN

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
C202	1-128-552-51	ELECT	47uF	20%	63V	C524	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C203	1-126-961-11	ELECT	2.2uF	20%	50V	C601	1-104-661-91	ELECT	330uF	20%	16V
C225	1-130-495-00	MYLAR	0.1uF	5%	50V	C602	1-126-923-91	ELECT	220uF	20%	10V
C226	1-130-495-00	MYLAR	0.1uF	5%	50V	C603	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C227	1-130-495-00	MYLAR	0.1uF	5%	50V	C604	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C228	1-130-495-00	MYLAR	0.1uF	5%	50V	C605	1-126-933-11	ELECT	100uF	20%	16V
C231	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C606	1-126-933-11	ELECT	100uF	20%	16V
C232	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C607	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C240	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C608	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
△C250	1-113-920-11	CERAMIC	0.0022uF	20%	250V (E51, SP, KR)	C609	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
△C251	1-113-920-11	CERAMIC	0.0022uF	20%	250V (E51, SP, KR)	C610	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C270	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C611	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C271	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C612	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C291	1-126-963-11	ELECT	4.7uF	20%	50V	C613	1-126-963-11	ELECT	4.7uF	20%	50V
C292	1-126-947-11	ELECT	47uF	20%	35V	C614	1-126-963-11	ELECT	4.7uF	20%	50V
C301	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	C615	1-136-167-00	FILM	0.15uF	5%	50V
C303	1-164-730-11	CERAMIC CHIP	0.0012uF	10%	50V	C616	1-136-167-00	FILM	0.15uF	5%	50V
C304	1-164-730-11	CERAMIC CHIP	0.0012uF	10%	50V	C617	1-136-167-00	FILM	0.15uF	5%	50V
C310	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C618	1-136-167-00	FILM	0.15uF	5%	50V
C363	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C621	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C451	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C622	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C452	1-104-662-91	ELECT	22uF	20%	25V	C623	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C453	1-162-979-11	CERAMIC CHIP	0.0027uF	10%	50V	C624	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C454	1-162-979-11	CERAMIC CHIP	0.0027uF	10%	50V	C625	1-126-964-11	ELECT	10uF	20%	50V
C455	1-162-979-11	CERAMIC CHIP	0.0027uF	10%	50V	C626	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C456	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C629	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C457	1-137-459-11	MYLAR	0.0056uF	5%	100V	C630	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C460	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C631	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C461	1-164-392-11	CERAMIC CHIP	390PF	5%	50V	C632	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C462	1-164-392-11	CERAMIC CHIP	390PF	5%	50V	C634	1-164-218-11	CERAMIC CHIP	180PF	5%	50V
C463	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C635	1-164-218-11	CERAMIC CHIP	180PF	5%	50V
C466	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C637	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C467	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C638	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C468	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C639	1-126-947-11	ELECT	47uF	20%	35V
C501	1-126-963-11	ELECT	4.7uF	20%	50V	C640	1-126-947-11	ELECT	47uF	20%	35V
C502	1-126-956-91	ELECT	0.1uF	20%	50V	C643	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C503	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C644	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C504	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C648	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C505	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C649	1-126-960-11	ELECT	1uF	20%	50V
C506	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C650	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C507	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C652	1-126-960-11	ELECT	1uF	20%	50V
C508	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C653	1-126-963-11	ELECT	4.7uF	20%	50V
C509	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	C654	1-126-963-11	ELECT	4.7uF	20%	50V
C510	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	C655	1-126-960-11	ELECT	1uF	20%	50V
C511	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C656	1-126-960-11	ELECT	1uF	20%	50V
C512	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C657	1-104-655-91	ELECT	470uF	20%	6.3V
C513	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C658	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C514	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C689	1-126-960-11	ELECT	1uF	20%	50V
C515	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C690	1-126-960-11	ELECT	1uF	20%	50V
C516	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C696	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C517	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C699	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C519	1-126-963-11	ELECT	4.7uF	20%	50V	C867	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C520	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C868	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C521	1-126-963-11	ELECT	4.7uF	20%	50V	C869	1-126-935-11	ELECT	470uF	20%	16V
C523	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C882	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
						C883	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

MAIN

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks
C903	1-126-964-11	ELECT	10uF	20%	50V	D012	8-719-991-33	DIODE 1SS133T-77	
C905	1-164-230-11	CERAMIC CHIP	220PF	5%	50V	D015	8-719-983-62	DIODE MTZJ-T-72-3.3A	
C906	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	D016	8-719-991-33	DIODE 1SS133T-77	
C907	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	D017	8-719-991-33	DIODE 1SS133T-77	
C908	1-126-933-11	ELECT	100uF	20%	16V	D020	8-719-991-33	DIODE 1SS133T-77	
C909	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	D021	6-500-948-01	DIODE MTZJ-T-72-10C	
C910	1-162-918-11	CERAMIC CHIP	18PF	5%	50V	D022	8-719-991-33	DIODE 1SS133T-77	
C911	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	D023	8-719-991-33	DIODE 1SS133T-77	
C912	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	D024	8-719-991-33	DIODE 1SS133T-77	
C913	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	D025	8-719-991-33	DIODE 1SS133T-77	
C914	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D026	8-719-991-33	DIODE 1SS133T-77	
C915	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	D027	8-719-991-33	DIODE 1SS133T-77	
C916	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	D028	8-719-991-33	DIODE 1SS133T-77	
C917	1-164-230-11	CERAMIC CHIP	220PF	5%	50V	D029	8-719-991-33	DIODE 1SS133T-77	
C918	1-164-230-11	CERAMIC CHIP	220PF	5%	50V	D030	8-719-991-33	DIODE 1SS133T-77	
C919	1-164-230-11	CERAMIC CHIP	220PF	5%	50V	D031	8-719-991-33	DIODE 1SS133T-77	
C921	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	D034	8-719-991-33	DIODE 1SS133T-77	
C924	1-115-456-21	CAPACITOR	0.22F		5.5V	D035	8-719-991-33	DIODE 1SS133T-77	
C926	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	D036	8-719-991-33	DIODE 1SS133T-77	
C927	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D037	8-719-991-33	DIODE 1SS133T-77	
C928	1-126-964-11	ELECT	10uF	20%	50V	D038	8-719-991-33	DIODE 1SS133T-77	
C930	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D101	8-719-991-33	DIODE 1SS133T-77	
C931	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D102	8-719-991-33	DIODE 1SS133T-77	
C933	1-104-662-91	ELECT	22uF	20%	25V	D103	8-719-991-33	DIODE 1SS133T-77	
C936	1-126-933-11	ELECT	100uF	20%	16V	D104	8-719-991-33	DIODE 1SS133T-77	
C937	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D105	8-719-991-33	DIODE 1SS133T-77	
C938	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D106	8-719-991-33	DIODE 1SS133T-77	
C941	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D107	8-719-991-33	DIODE 1SS133T-77	
C942	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D108	8-719-991-33	DIODE 1SS133T-77	
C944	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	D111	8-719-991-33	DIODE 1SS133T-77	
C945	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	D112	8-719-991-33	DIODE 1SS133T-77	
C950	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D113	6-500-949-01	DIODE 1SS244-T-72	
C953	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	D114	6-500-949-01	DIODE 1SS244-T-72	
C971	1-126-963-11	ELECT	4.7uF	20%	50V	D201	8-719-059-21	DIODE RK46LF-T2	
C975	1-126-956-91	ELECT	0.1uF	20%	50V	D202	8-719-059-21	DIODE RK46LF-T2	
< CONNECTOR >									
CN202	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P				D203	8-719-991-33	DIODE 1SS133T-77	
CN251	1-770-128-11	PIN, CONNECTOR (3.96mm PITCH) 2P				D204	8-719-991-33	DIODE 1SS133T-77	
(US, CND, AEP, UK)									
* CN252	1-564-687-11	PIN, CONNECTOR (3.96mm PITCH) 3P				D205	8-719-991-33	DIODE 1SS133T-77	
(E51, SP, KR)									
CN291	1-564-506-11	PLUG, CONNECTOR 3P				D206	8-719-991-33	DIODE 1SS133T-77	
CN602	1-568-830-11	CONNECTOR, FFC 11P (EXCEPT AEP, UK)				D207	8-719-991-33	DIODE 1SS133T-77	
CN602	1-784-776-11	CONNECTOR, FFC 15P (AEP, UK)				D208	8-719-991-33	DIODE 1SS133T-77	
CN701	1-568-826-11	CONNECTOR, FFC 7P				D209	8-719-991-33	DIODE 1SS133T-77	
CN901	1-779-295-11	CONNECTOR, FFC (LIF (NON-ZIF)) 27P				D210	8-719-991-33	DIODE 1SS133T-77	
CN902	1-779-295-11	CONNECTOR, FFC (LIF (NON-ZIF)) 27P				D249	8-719-991-33	DIODE 1SS133T-77	
CN903	1-691-040-31	CONNECTOR, FFC 8P				D250	8-719-991-33	DIODE 1SS133T-77	
CN904	1-779-287-11	CONNECTOR, FFC (LIF (NON-ZIF)) 19P				D251	8-719-991-33	DIODE 1SS133T-77	
< DIODE >									
D001	6-500-340-01	DIODE G5SBA60L-6088				D252	8-719-991-33	DIODE 1SS133T-77	
D002	6-500-340-01	DIODE G5SBA60L-6088				D253	8-719-991-33	DIODE 1SS133T-77	
D003	8-719-947-54	DIODE MTZJ-T-72-12C (EXCEPT AEP, UK)				D254	8-719-991-33	DIODE 1SS133T-77	
D010	8-719-991-33	DIODE 1SS133T-77				D255	8-719-991-33	DIODE 1SS133T-77	
D011	8-719-991-33	DIODE 1SS133T-77				D256	8-719-991-33	DIODE 1SS133T-77	
< DIODE >									
D001	6-500-340-01	DIODE G5SBA60L-6088				D257	8-719-991-33	DIODE 1SS133T-77	
D002	6-500-340-01	DIODE G5SBA60L-6088				D294	8-719-991-33	DIODE 1SS133T-77	
D003	8-719-947-54	DIODE MTZJ-T-72-12C (EXCEPT AEP, UK)				D295	8-719-991-33	DIODE 1SS133T-77	
D010	8-719-991-33	DIODE 1SS133T-77				D301	8-719-991-33	DIODE 1SS133T-77	
D011	8-719-991-33	DIODE 1SS133T-77				D302	8-719-991-33	DIODE 1SS133T-77	
< DIODE >									
D0501	8-719-991-33	DIODE 1SS133T-77				D501	8-719-991-33	DIODE 1SS133T-77	

MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
D502	8-719-983-01	DIODE MTZJ-T-72-2.2B		JR612	1-216-864-11	SHORT CHIP	0
D601	8-719-947-12	DIODE MTZJ-T-72-4.7A		JR613	1-216-864-11	SHORT CHIP	0
D602	8-719-947-12	DIODE MTZJ-T-72-4.7A		JR614	1-216-864-11	SHORT CHIP	0
D603	8-719-991-33	DIODE 1SS133T-77		JR697	1-216-864-11	SHORT CHIP	0
D604	8-719-991-33	DIODE 1SS133T-77		JR901	1-216-864-11	SHORT CHIP	0
D605	8-719-991-33	DIODE 1SS133T-77		JR902	1-216-864-11	SHORT CHIP	0
D606	8-719-991-33	DIODE 1SS133T-77		JR903	1-216-833-11	METAL CHIP	10K 5% 1/10W
D607	8-719-991-33	DIODE 1SS133T-77		JR906	1-216-864-11	SHORT CHIP	0
D608	8-719-991-33	DIODE 1SS133T-77		JR911	1-216-296-11	SHORT CHIP	0
D609	8-719-991-33	DIODE 1SS133T-77		JR915	1-216-864-11	SHORT CHIP	0
D610	8-719-991-33	DIODE 1SS133T-77					< COIL >
D703	8-719-991-33	DIODE 1SS133T-77		L201	1-456-107-11	COIL, AIR-CORE	
D862	8-719-991-33	DIODE 1SS133T-77		L202	1-456-107-11	COIL, AIR-CORE	
D901	8-719-991-33	DIODE 1SS133T-77		L451	1-456-094-11	TRANSFORMER, BIAS OSCILLATION	
D904	8-719-991-33	DIODE 1SS133T-77					< TRANSFORMER >
D905	8-719-991-33	DIODE 1SS133T-77					
D907	8-719-991-33	DIODE 1SS133T-77					
D908	8-719-991-33	DIODE 1SS133T-77					
D911	6-500-948-01	DIODE MTZJ-T-72-10C		▲ PT251	1-439-734-11	TRANSFORMER, POWER (US, CND)	
				▲ PT251	1-439-735-11	TRANSFORMER, POWER (AEP, UK)	
				▲ PT251	1-439-736-11	TRANSFORMER, POWER (E51, SP, KR)	
							< TRANSISTOR >
* EP001	1-537-738-21	TERMINAL, EARTH		Q006	8-729-120-28	TRANSISTOR	2SC1623-L5L6
* EP002	1-537-738-21	TERMINAL, EARTH		Q008	8-729-120-28	TRANSISTOR	2SC1623-L5L6
* EP003	1-537-738-21	TERMINAL, EARTH		Q009	8-729-045-00	TRANSISTOR	KTA1266GR-AT
* EP004	1-537-738-21	TERMINAL, EARTH		Q010	8-729-120-28	TRANSISTOR	2SC1623-L5L6
				Q011	8-729-209-60	TRANSISTOR	2SB1375
							< SHORT >
FB601	1-216-295-91	SHORT CHIP	0	Q012	8-729-036-89	TRANSISTOR	KTC3198GR-AT
FB602	1-216-295-91	SHORT CHIP	0	Q015	8-729-600-22	TRANSISTOR	2SA1235-F
				Q018	8-729-120-28	TRANSISTOR	2SC1623-L5L6
				Q019	8-729-209-60	TRANSISTOR	2SB1375
				Q020	8-729-195-23	TRANSISTOR	2SA952-K2
							< IC >
IC001	8-759-071-48	IC TA7807S		Q021	8-729-027-46	TRANSISTOR	DTC114YKA-T146
IC501	8-759-100-96	IC uPC4558G2		Q060	8-729-027-43	TRANSISTOR	DTC114EKA-T146
IC502	8-759-100-96	IC uPC4558G2		Q061	8-729-600-22	TRANSISTOR	2SA1235-F
IC601	6-702-800-01	IC BD3882FV		Q062	8-729-600-22	TRANSISTOR	2SA1235-F
IC605	8-759-525-25	IC BU4052BCF-E2		Q063	8-729-600-22	TRANSISTOR	2SA1235-F
							< JACK >
IC901	6-804-271-01	IC M3062CMEN-A08FPU0		Q064	8-729-120-28	TRANSISTOR	2SC1623-L5L6
IC902	6-704-135-01	IC MM1614A		Q065	8-729-120-28	TRANSISTOR	2SC1623-L5L6
IC904	8-759-713-61	IC PST3429UL		Q101	8-729-120-28	TRANSISTOR	2SC1623-L5L6
				Q102	8-729-120-28	TRANSISTOR	2SC1623-L5L6
				Q103	8-729-021-88	TRANSISTOR	2SA1587-BL (TE85L)
* J201	1-537-240-41	TERMINAL BOARD (CHECKER PIN) (SPEAKERS □) (US, CND)		Q104	8-729-021-88	TRANSISTOR	2SA1587-BL (TE85L)
J201	1-537-925-22	TERMINAL BOARD (CHECKER PIN) (SPEAKERS □) (EXCEPT US, CND)		Q105	8-729-021-88	TRANSISTOR	2SA1587-BL (TE85L)
J602	1-766-556-51	JACK, PIN 3P (SUB WOOFER/AUX IN)		Q106	8-729-021-88	TRANSISTOR	2SA1587-BL (TE85L)
				Q107	8-729-120-28	TRANSISTOR	2SC1623-L5L6
				Q108	8-729-120-28	TRANSISTOR	2SC1623-L5L6
							< SHORT >
JR001	1-216-296-11	SHORT CHIP	0	Q109	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR002	1-216-864-11	SHORT CHIP	0	Q110	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR111	1-216-864-11	SHORT CHIP	0	Q111	8-729-045-02	TRANSISTOR	KTC3200GR-AT
JR112	1-216-864-11	SHORT CHIP	0	Q112	8-729-045-02	TRANSISTOR	KTC3200GR-AT
JR312	1-216-864-11	SHORT CHIP	0	Q113	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR501	1-216-864-11	SHORT CHIP	0	Q114	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR502	1-216-296-11	SHORT CHIP	0	Q117	6-550-309-01	TRANSISTOR	2SB1686
JR609	1-216-864-11	SHORT CHIP	0	Q118	6-550-309-01	TRANSISTOR	2SB1686
JR611	1-216-864-11	SHORT CHIP	0	Q119	6-550-311-01	TRANSISTOR	2SD2642
				Q120	6-550-311-01	TRANSISTOR	2SD2642

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MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
Q123	8-729-021-88	TRANSISTOR	2SA1587-BL (TE85L)	R023	1-216-809-11	METAL CHIP	100 5% 1/10W
Q124	8-729-021-88	TRANSISTOR	2SA1587-BL (TE85L)	R024	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
Q127	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R025	1-247-879-91	CARBON	100K 5% 1/4W
Q128	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R026	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q201	6-550-843-01	TRANSISTOR	2SJ599-Z-E2	R028	1-216-033-00	RES-CHIP	220 5% 1/10W
Q202	6-550-842-01	TRANSISTOR	2SK3377-Z-E2	R029	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q203	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R030	1-216-837-11	METAL CHIP	22K 5% 1/10W
Q204	8-729-600-22	TRANSISTOR	2SA1235-F	R031	1-216-809-11	METAL CHIP	100 5% 1/10W
Q205	8-729-600-22	TRANSISTOR	2SA1235-F	R033	1-216-817-11	METAL CHIP	470 5% 1/10W
Q206	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R034	1-216-849-11	METAL CHIP	220K 5% 1/10W
Q235	8-729-600-22	TRANSISTOR	2SA1235-F	R035	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q250	6-550-317-01	TRANSISTOR	2SD0814A0LS0	R036	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q251	8-729-021-88	TRANSISTOR	2SA1587-BL (TE85L)	R038	1-247-807-31	CARBON	100 5% 1/4W
Q280	8-729-027-23	TRANSISTOR	DTA114EKA-T146	R042	1-249-409-11	CARBON	220 5% 1/4W
Q281	8-729-021-88	TRANSISTOR	2SA1587-BL (TE85L)	R043	1-249-409-11	CARBON	220 5% 1/4W
Q291	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R044	1-249-409-11	CARBON	220 5% 1/4W
Q292	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R045	1-247-807-31	CARBON	100 5% 1/4W
Q293	8-729-036-89	TRANSISTOR	KTC3198GR-AT	R046	1-247-807-31	CARBON	100 5% 1/4W
Q294	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R047	1-249-409-11	CARBON	220 5% 1/4W
Q305	8-729-600-22	TRANSISTOR	2SA1235-F	R048	1-249-409-11	CARBON	220 5% 1/4W
Q306	8-729-600-22	TRANSISTOR	2SA1235-F	R049	1-249-409-11	CARBON	220 5% 1/4W
Q307	8-729-048-99	TRANSISTOR	2SK2541-T	R051	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q308	8-729-048-99	TRANSISTOR	2SK2541-T	R052	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q309	8-729-048-99	TRANSISTOR	2SK2541-T	R053	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q451	8-729-011-92	TRANSISTOR	2SC2001TP-K1K2	R056	1-216-805-11	METAL CHIP	47 5% 1/10W
Q452	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R057	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
Q453	8-729-044-60	TRANSISTOR	2SC3383-T-AA	R058	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q454	8-729-044-60	TRANSISTOR	2SC3383-T-AA	R059	1-216-813-11	METAL CHIP	220 5% 1/10W
Q501	8-729-045-62	TRANSISTOR	2SK2158-T2B	R060	1-216-817-11	METAL CHIP	470 5% 1/10W
Q502	8-729-045-62	TRANSISTOR	2SK2158-T2B	R061	1-216-837-11	METAL CHIP	22K 5% 1/10W
Q503	8-729-045-62	TRANSISTOR	2SK2158-T2B	R062	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q504	8-729-045-62	TRANSISTOR	2SK2158-T2B	R063	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q505	8-729-203-31	TRANSISTOR	2SJ106-GR	R064	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q506	8-729-203-31	TRANSISTOR	2SJ106-GR	R065	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q507	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R070	1-216-826-11	METAL CHIP	2.7K 5% 1/10W
Q508	8-729-027-23	TRANSISTOR	DTA114EKA-T146	R071	1-216-842-11	METAL CHIP	56K 5% 1/10W
Q509	8-729-027-43	TRANSISTOR	DTC114EKA-T146	R072	1-216-842-11	METAL CHIP	56K 5% 1/10W
Q510	8-729-027-43	TRANSISTOR	DTC114EKA-T146	R076	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
Q601	8-729-027-23	TRANSISTOR	DTA114EKA-T146	R077	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W
Q607	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R078	1-216-840-11	METAL CHIP	39K 5% 1/10W
Q608	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R079	1-216-832-11	METAL CHIP	8.2K 5% 1/10W
Q901	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R080	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q902	8-729-027-46	TRANSISTOR	DTC114YKA-T146	R081	1-216-809-11	METAL CHIP	100 5% 1/10W
Q903	8-729-027-46	TRANSISTOR	DTC114YKA-T146	R082	1-216-837-11	METAL CHIP	22K 5% 1/10W
Q904	6-550-305-01	TRANSISTOR	2SA1296GR-(TPE2)	R083	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q905	8-729-195-23	TRANSISTOR	2SA952-K2	R084	1-216-837-11	METAL CHIP	22K 5% 1/10W
Q906	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R093	1-216-844-11	METAL CHIP	82K 5% 1/10W
< RESISTOR >							
R015	1-216-837-11	METAL CHIP	22K 5% 1/10W	R094	1-216-840-11	METAL CHIP	39K 5% 1/10W
R016	1-249-413-11	CARBON	470 5% 1/4W	R095	1-216-832-11	METAL CHIP	8.2K 5% 1/10W
R017	1-216-841-11	METAL CHIP	47K 5% 1/10W	R096	1-216-844-11	METAL CHIP	82K 5% 1/10W
R018	1-216-809-11	METAL CHIP	100 5% 1/10W	R103	1-216-834-11	METAL CHIP	12K 5% 1/10W
R019	1-216-817-11	METAL CHIP	470 5% 1/10W	R104	1-216-834-11	METAL CHIP	12K 5% 1/10W
R020	1-249-381-11	CARBON	1 5% 1/4W	R105	1-216-838-11	METAL CHIP	27K 5% 1/10W
R021	1-249-381-11	CARBON	1 5% 1/4W	R106	1-216-838-11	METAL CHIP	27K 5% 1/10W
R022	1-216-821-11	METAL CHIP	1K 5% 1/10W	R107	1-216-809-11	METAL CHIP	100 5% 1/10W
				R108	1-216-809-11	METAL CHIP	100 5% 1/10W

MAIN

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R109	1-216-845-11	METAL CHIP	100K	5%	1/10W	R203	1-216-817-11	METAL CHIP	470	5%	1/10W
R111	1-216-820-11	METAL CHIP	820	5%	1/10W	R204	1-216-817-11	METAL CHIP	470	5%	1/10W
R112	1-216-820-11	METAL CHIP	820	5%	1/10W	R205	1-216-845-11	METAL CHIP	100K	5%	1/10W
R113	1-216-838-11	METAL CHIP	27K	5%	1/10W	R206	1-216-845-11	METAL CHIP	100K	5%	1/10W
R114	1-249-434-11	CARBON	27K	5%	1/4W	R207	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R115	1-216-206-00	RES-CHIP	2.2K	5%	1/8W	R208	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R116	1-216-206-00	RES-CHIP	2.2K	5%	1/8W	R209	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R117	1-216-833-11	METAL CHIP	10K	5%	1/10W	R210	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R118	1-216-833-11	METAL CHIP	10K	5%	1/10W	R211	1-216-833-11	METAL CHIP	10K	5%	1/10W
R119	1-216-809-11	METAL CHIP	100	5%	1/10W	R212	1-216-833-11	METAL CHIP	10K	5%	1/10W
R120	1-216-809-11	METAL CHIP	100	5%	1/10W	R213	1-216-821-11	METAL CHIP	1K	5%	1/10W
R121	1-216-809-11	METAL CHIP	100	5%	1/10W	R214	1-216-821-11	METAL CHIP	1K	5%	1/10W
R122	1-216-809-11	METAL CHIP	100	5%	1/10W	R215	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R123	1-216-206-00	RES-CHIP	2.2K	5%	1/8W	R216	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R124	1-216-206-00	RES-CHIP	2.2K	5%	1/8W	R217	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R125	1-216-198-91	RES-CHIP	1K	5%	1/8W	R218	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R126	1-216-198-91	RES-CHIP	1K	5%	1/8W	R219	1-216-821-11	METAL CHIP	1K	5%	1/10W
R127	1-216-805-11	METAL CHIP	47	5%	1/10W	R221	1-216-845-11	METAL CHIP	100K	5%	1/10W
R128	1-216-805-11	METAL CHIP	47	5%	1/10W	R222	1-216-845-11	METAL CHIP	100K	5%	1/10W
△R129	1-216-361-31	METAL OXIDE	0.22	5%	2W	R223	1-216-838-11	METAL CHIP	27K	5%	1/10W
△R130	1-216-361-31	METAL OXIDE	0.22	5%	2W	R224	1-216-838-11	METAL CHIP	27K	5%	1/10W
△R131	1-216-361-31	METAL OXIDE	0.22	5%	2W	R225	1-216-821-11	METAL CHIP	1K	5%	1/10W
△R132	1-216-361-31	METAL OXIDE	0.22	5%	2W	R226	1-216-821-11	METAL CHIP	1K	5%	1/10W
R133	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R227	1-216-837-11	METAL CHIP	22K	5%	1/10W
R134	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R250	1-249-393-11	CARBON	10	5%	1/4W
R135	1-216-824-11	METAL CHIP	1.8K	5%	1/10W	R251	1-249-393-11	CARBON	10	5%	1/4W
R136	1-216-824-11	METAL CHIP	1.8K	5%	1/10W	R252	1-249-393-11	CARBON	10	5%	1/4W
R137	1-216-809-11	METAL CHIP	100	5%	1/10W	R253	1-249-393-11	CARBON	10	5%	1/4W
R138	1-216-809-11	METAL CHIP	100	5%	1/10W	R255	1-216-837-11	METAL CHIP	22K	5%	1/10W
R141	1-216-049-11	RES-CHIP	1K	5%	1/10W	R256	1-216-837-11	METAL CHIP	22K	5%	1/10W
R142	1-216-049-11	RES-CHIP	1K	5%	1/10W	R257	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R143	1-216-833-11	METAL CHIP	10K	5%	1/10W	R270	1-216-833-11	METAL CHIP	10K	5%	1/10W
R144	1-216-833-11	METAL CHIP	10K	5%	1/10W	R271	1-216-833-11	METAL CHIP	10K	5%	1/10W
R150	1-216-833-11	METAL CHIP	10K	5%	1/10W	R272	1-216-841-11	METAL CHIP	47K	5%	1/10W
R151	1-216-864-11	SHORT CHIP	0			R273	1-216-833-11	METAL CHIP	10K	5%	1/10W
R152	1-216-864-11	SHORT CHIP	0			R274	1-216-833-11	METAL CHIP	10K	5%	1/10W
R155	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R280	1-216-841-11	METAL CHIP	47K	5%	1/10W
R156	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R281	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R157	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R282	1-216-833-11	METAL CHIP	10K	5%	1/10W
R158	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R291	1-216-833-11	METAL CHIP	10K	5%	1/10W
R165	1-216-821-11	METAL CHIP	1K	5%	1/10W	R292	1-216-833-11	METAL CHIP	10K	5%	1/10W
R166	1-216-821-11	METAL CHIP	1K	5%	1/10W	R293	1-216-836-11	METAL CHIP	18K	5%	1/10W
R171	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R294	1-216-845-11	METAL CHIP	100K	5%	1/10W
R172	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R295	1-216-841-11	METAL CHIP	47K	5%	1/10W
R173	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R296	1-216-864-11	SHORT CHIP	0		
R174	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R297	1-216-833-11	METAL CHIP	10K	5%	1/10W
R175	1-216-815-11	METAL CHIP	330	5%	1/10W	R298	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R176	1-216-815-11	METAL CHIP	330	5%	1/10W	R299	1-216-142-00	RES-CHIP	4.7	5%	1/8W
R177	1-216-835-11	METAL CHIP	15K	5%	1/10W	R303	1-216-844-11	METAL CHIP	82K	5%	1/10W
R178	1-216-835-11	METAL CHIP	15K	5%	1/10W	R304	1-216-844-11	METAL CHIP	82K	5%	1/10W
R181	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R305	1-216-849-11	METAL CHIP	220K	5%	1/10W
R182	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R306	1-216-821-11	METAL CHIP	1K	5%	1/10W
R183	1-216-841-11	METAL CHIP	47K	5%	1/10W	R307	1-216-821-11	METAL CHIP	1K	5%	1/10W
R185	1-216-857-11	METAL CHIP	1M	5%	1/10W	R451	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R201	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R453	1-247-831-91	CARBON	1K	5%	1/4W
R202	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R454	1-249-392-11	CARBON	8.2	5%	1/4W

The components identified by mark ▲ or dotted line with mark ▲ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ▲ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
R455	1-216-836-11	METAL CHIP	18K 5% 1/10W	R620	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R456	1-216-836-11	METAL CHIP	18K 5% 1/10W	R621	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R457	1-216-845-11	METAL CHIP	100K 5% 1/10W	R622	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R458	1-216-842-11	METAL CHIP	56K 5% 1/10W	R623	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R459	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R624	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R461	1-216-835-11	METAL CHIP	15K 5% 1/10W	R625	1-216-837-11	METAL CHIP	22K 5% 1/10W
R462	1-216-835-11	METAL CHIP	15K 5% 1/10W	R626	1-216-837-11	METAL CHIP	22K 5% 1/10W
R501	1-216-837-11	METAL CHIP	22K 5% 1/10W	R627	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R502	1-216-837-11	METAL CHIP	22K 5% 1/10W	R628	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R503	1-216-833-11	METAL CHIP	10K 5% 1/10W	R629	1-216-835-11	METAL CHIP	15K 5% 1/10W
R504	1-216-833-11	METAL CHIP	10K 5% 1/10W	R630	1-216-835-11	METAL CHIP	15K 5% 1/10W
R505	1-216-845-11	METAL CHIP	100K 5% 1/10W	R631	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R506	1-216-845-11	METAL CHIP	100K 5% 1/10W	R632	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R507	1-216-845-11	METAL CHIP	100K 5% 1/10W	R633	1-216-824-11	METAL CHIP	1.8K 5% 1/10W
R508	1-216-845-11	METAL CHIP	100K 5% 1/10W	R634	1-216-824-11	METAL CHIP	1.8K 5% 1/10W
R509	1-216-845-11	METAL CHIP	100K 5% 1/10W	R635	1-216-821-11	METAL CHIP	1K 5% 1/10W
R510	1-216-845-11	METAL CHIP	100K 5% 1/10W	R636	1-216-821-11	METAL CHIP	1K 5% 1/10W
R511	1-216-841-11	METAL CHIP	47K 5% 1/10W	R637	1-216-821-11	METAL CHIP	1K 5% 1/10W
R512	1-216-841-11	METAL CHIP	47K 5% 1/10W	R638	1-216-821-11	METAL CHIP	1K 5% 1/10W
R513	1-216-845-11	METAL CHIP	100K 5% 1/10W	R639	1-216-836-11	METAL CHIP	18K 5% 1/10W
R514	1-216-845-11	METAL CHIP	100K 5% 1/10W	R640	1-216-836-11	METAL CHIP	18K 5% 1/10W
R515	1-216-857-11	METAL CHIP	1M 5% 1/10W	R641	1-247-847-91	CARBON	4.7K 5% 1/4W
R516	1-216-857-11	METAL CHIP	1M 5% 1/10W	R642	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R517	1-216-845-11	METAL CHIP	100K 5% 1/10W	R643	1-216-845-11	METAL CHIP	100K 5% 1/10W
R518	1-216-845-11	METAL CHIP	100K 5% 1/10W	R644	1-216-845-11	METAL CHIP	100K 5% 1/10W
R519	1-216-845-11	METAL CHIP	100K 5% 1/10W	R645	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
R520	1-216-845-11	METAL CHIP	100K 5% 1/10W	R646	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
R521	1-216-849-11	METAL CHIP	220K 5% 1/10W	R647	1-216-833-11	METAL CHIP	10K 5% 1/10W
R522	1-216-849-11	METAL CHIP	220K 5% 1/10W	R648	1-216-816-11	METAL CHIP	390 5% 1/10W
R523	1-216-849-11	METAL CHIP	220K 5% 1/10W	R649	1-216-828-11	METAL CHIP	3.9K 5% 1/10W
R524	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R650	1-216-828-11	METAL CHIP	3.9K 5% 1/10W
R525	1-216-843-11	METAL CHIP	68K 5% 1/10W	R651	1-216-815-11	METAL CHIP	330 5% 1/10W
R527	1-216-821-11	METAL CHIP	1K 5% 1/10W	R652	1-249-411-11	CARBON	330 5% 1/4W
R528	1-216-821-11	METAL CHIP	1K 5% 1/10W	R653	1-216-821-11	METAL CHIP	1K 5% 1/10W
R529	1-216-833-11	METAL CHIP	10K 5% 1/10W	R654	1-247-831-91	CARBON	1K 5% 1/4W
R530	1-216-833-11	METAL CHIP	10K 5% 1/10W	R655	1-216-867-11	METAL CHIP	6.8K 0.5% 1/10W
R531	1-216-833-11	METAL CHIP	10K 5% 1/10W	R656	1-249-427-11	CARBON	6.8K 5% 1/4W
R532	1-216-833-11	METAL CHIP	10K 5% 1/10W	R657	1-216-833-11	METAL CHIP	10K 5% 1/10W
R533	1-216-821-11	METAL CHIP	1K 5% 1/10W	R658	1-216-833-11	METAL CHIP	10K 5% 1/10W
R601	1-216-806-11	METAL CHIP	56 5% 1/10W	R660	1-216-853-11	METAL CHIP	470K 5% 1/10W
R602	1-216-806-11	METAL CHIP	56 5% 1/10W	R661	1-216-828-11	METAL CHIP	3.9K 5% 1/10W
R603	1-216-852-11	METAL CHIP	390K 5% 1/10W	R662	1-216-828-11	METAL CHIP	3.9K 5% 1/10W
R604	1-216-852-11	METAL CHIP	390K 5% 1/10W	R663	1-216-824-11	METAL CHIP	1.8K 5% 1/10W
R605	1-216-822-11	METAL CHIP	1.2K 5% 1/10W	R664	1-216-824-11	METAL CHIP	1.8K 5% 1/10W
R606	1-216-822-11	METAL CHIP	1.2K 5% 1/10W	R665	1-216-853-11	METAL CHIP	470K 5% 1/10W
R607	1-216-836-11	METAL CHIP	18K 5% 1/10W	R667	1-216-843-11	METAL CHIP	68K 5% 1/10W
R608	1-216-836-11	METAL CHIP	18K 5% 1/10W	R668	1-216-843-11	METAL CHIP	68K 5% 1/10W
R609	1-216-834-11	METAL CHIP	12K 5% 1/10W	R671	1-216-836-11	METAL CHIP	18K 5% 1/10W
R610	1-216-834-11	METAL CHIP	12K 5% 1/10W	R672	1-216-836-11	METAL CHIP	18K 5% 1/10W
R611	1-216-833-11	METAL CHIP	10K 5% 1/10W	R680	1-247-831-91	CARBON	1K 5% 1/4W
R612	1-216-833-11	METAL CHIP	10K 5% 1/10W	R695	1-216-833-11	METAL CHIP	10K 5% 1/10W
R613	1-216-835-11	METAL CHIP	15K 5% 1/10W	R696	1-216-833-11	METAL CHIP	10K 5% 1/10W
R614	1-216-835-11	METAL CHIP	15K 5% 1/10W	R702	1-216-809-11	METAL CHIP	100 5% 1/10W
R615	1-247-831-91	CARBON	1K 5% 1/4W	R703	1-216-821-11	METAL CHIP	1K 5% 1/10W
R616	1-247-831-91	CARBON	1K 5% 1/4W	R704	1-216-821-11	METAL CHIP	1K 5% 1/10W
R617	1-216-836-11	METAL CHIP	18K 5% 1/10W	R705	1-216-809-11	METAL CHIP	100 5% 1/10W
R618	1-216-836-11	METAL CHIP	18K 5% 1/10W	R706	1-216-821-11	METAL CHIP	1K 5% 1/10W
R619	1-216-829-11	METAL CHIP	4.7K 5% 1/10W				

MAIN

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R707	1-216-821-11	METAL CHIP	1K	5%	1/10W	R779	1-216-821-11	METAL CHIP	1K	5%	1/10W
R708	1-216-821-11	METAL CHIP	1K	5%	1/10W	R780	1-216-821-11	METAL CHIP	1K	5%	1/10W
R709	1-216-833-11	METAL CHIP	10K	5%	1/10W	R781	1-216-809-11	METAL CHIP	100	5%	1/10W
R710	1-216-833-11	METAL CHIP	10K	5%	1/10W	R782	1-247-831-91	CARBON	1K	5%	1/4W
R711	1-216-833-11	METAL CHIP	10K	5%	1/10W	R783	1-216-809-11	METAL CHIP	100	5%	1/10W
R712	1-216-821-11	METAL CHIP	1K	5%	1/10W	R784	1-216-809-11	METAL CHIP	100	5%	1/10W
R713	1-216-821-11	METAL CHIP	1K	5%	1/10W	R785	1-216-809-11	METAL CHIP	100	5%	1/10W
R714	1-216-821-11	METAL CHIP	1K	5%	1/10W	R786	1-216-833-11	METAL CHIP	10K	5%	1/10W
R715	1-216-821-11	METAL CHIP	1K	5%	1/10W	R787	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R716	1-216-821-11	METAL CHIP	1K	5%	1/10W	R788	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R717	1-216-833-11	METAL CHIP	10K	5%	1/10W	R789	1-216-809-11	METAL CHIP	100	5%	1/10W
R718	1-216-833-11	METAL CHIP	10K	5%	1/10W	R790	1-216-841-11	METAL CHIP	47K	5%	1/10W
R719	1-216-809-11	METAL CHIP	100	5%	1/10W	R791	1-216-837-11	METAL CHIP	22K	5%	1/10W
R720	1-216-833-11	METAL CHIP	10K	5%	1/10W	R792	1-216-841-11	METAL CHIP	47K	5%	1/10W
R721	1-216-833-11	METAL CHIP	10K	5%	1/10W	R793	1-216-833-11	METAL CHIP	10K	5%	1/10W
R722	1-216-833-11	METAL CHIP	10K	5%	1/10W	R880	1-216-841-11	METAL CHIP	47K	5%	1/10W
R723	1-249-429-11	CARBON	10K	5%	1/4W (EXCEPT AEP, UK)	R884	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R724	1-216-821-11	METAL CHIP	1K	5%	1/10W	R885	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R725	1-216-833-11	METAL CHIP	10K	5%	1/10W	R887	1-216-841-11	METAL CHIP	47K	5%	1/10W
R726	1-216-833-11	METAL CHIP	10K	5%	1/10W	R897	1-216-845-11	METAL CHIP	100K	5%	1/10W
R727	1-216-821-11	METAL CHIP	1K	5%	1/10W	R898	1-216-845-11	METAL CHIP	100K	5%	1/10W
R729	1-249-429-11	CARBON	10K	5%	1/4W (EXCEPT AEP, UK)	R901	1-216-841-11	METAL CHIP	47K	5%	1/10W
R730	1-216-809-11	METAL CHIP	100	5%	1/10W	R902	1-216-841-11	METAL CHIP	47K	5%	1/10W
R731	1-216-815-11	METAL CHIP	330	5%	1/10W	R903	1-216-841-11	METAL CHIP	47K	5%	1/10W
R732	1-216-833-11	METAL CHIP	10K	5%	1/10W	R904	1-216-841-11	METAL CHIP	47K	5%	1/10W
R733	1-216-821-11	METAL CHIP	1K	5%	1/10W	R905	1-216-841-11	METAL CHIP	47K	5%	1/10W
R734	1-216-821-11	METAL CHIP	1K	5%	1/10W	R906	1-216-841-11	METAL CHIP	47K	5%	1/10W
R735	1-216-821-11	METAL CHIP	1K	5%	1/10W	R907	1-216-841-11	METAL CHIP	47K	5%	1/10W
R736	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R908	1-216-238-91	RES-CHIP	47K	5%	1/8W
R737	1-216-821-11	METAL CHIP	1K	5%	1/10W	R909	1-216-841-11	METAL CHIP	47K	5%	1/10W
R738	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R910	1-216-809-11	METAL CHIP	100	5%	1/10W
R739	1-247-831-91	CARBON	1K	5%	1/4W	R911	1-216-809-11	METAL CHIP	100	5%	1/10W
R746	1-216-809-11	METAL CHIP	100	5%	1/10W	R912	1-216-809-11	METAL CHIP	100	5%	1/10W
R748	1-247-831-91	CARBON	1K	5%	1/4W	R913	1-216-809-11	METAL CHIP	100	5%	1/10W
R749	1-216-821-11	METAL CHIP	1K	5%	1/10W	R914	1-216-809-11	METAL CHIP	100	5%	1/10W
R750	1-216-821-11	METAL CHIP	1K	5%	1/10W	R915	1-216-809-11	METAL CHIP	100	5%	1/10W
R751	1-216-821-11	METAL CHIP	1K	5%	1/10W	R916	1-216-841-11	METAL CHIP	47K	5%	1/10W
R752	1-216-821-11	METAL CHIP	1K	5%	1/10W	R917	1-216-238-91	RES-CHIP	47K	5%	1/8W
R753	1-216-821-11	METAL CHIP	1K	5%	1/10W	R918	1-216-841-11	METAL CHIP	47K	5%	1/10W
R754	1-216-809-11	METAL CHIP	100	5%	1/10W	R919	1-216-841-11	METAL CHIP	47K	5%	1/10W
R755	1-216-821-11	METAL CHIP	1K	5%	1/10W	R920	1-216-809-11	METAL CHIP	100	5%	1/10W
R756	1-216-821-11	METAL CHIP	1K	5%	1/10W	R921	1-216-841-11	METAL CHIP	47K	5%	1/10W
R757	1-216-821-11	METAL CHIP	1K	5%	1/10W	R922	1-216-841-11	METAL CHIP	47K	5%	1/10W
R760	1-216-833-11	METAL CHIP	10K	5%	1/10W	R923	1-216-809-11	METAL CHIP	100	5%	1/10W
R763	1-216-837-11	METAL CHIP	22K	5%	1/10W	R924	1-216-809-11	METAL CHIP	100	5%	1/10W
R764	1-247-871-91	CARBON	47K	5%	1/4W	R925	1-216-809-11	METAL CHIP	100	5%	1/10W
R765	1-216-833-11	METAL CHIP	10K	5%	1/10W	R926	1-216-809-11	METAL CHIP	100	5%	1/10W
R766	1-216-833-11	METAL CHIP	10K	5%	1/10W	R927	1-216-809-11	METAL CHIP	100	5%	1/10W
R767	1-216-809-11	METAL CHIP	100	5%	1/10W	R928	1-216-809-11	METAL CHIP	100	5%	1/10W
R768	1-216-809-11	METAL CHIP	100	5%	1/10W	R929	1-247-807-31	CARBON	100	5%	1/4W
R769	1-216-809-11	METAL CHIP	100	5%	1/10W	R930	1-247-807-31	CARBON	100	5%	1/4W
R770	1-216-821-11	METAL CHIP	1K	5%	1/10W	R931	1-216-809-11	METAL CHIP	100	5%	1/10W
R771	1-216-809-11	METAL CHIP	100	5%	1/10W	R932	1-247-807-31	CARBON	100	5%	1/4W
R772	1-216-821-11	METAL CHIP	1K	5%	1/10W	R933	1-247-807-31	CARBON	100	5%	1/4W
R773	1-216-809-11	METAL CHIP	100	5%	1/10W	R934	1-247-807-31	CARBON	100	5%	1/4W
R775	1-216-833-11	METAL CHIP	10K	5%	1/10W	R935	1-247-807-31	CARBON	100	5%	1/4W
R776	1-216-809-11	METAL CHIP	100	5%	1/10W	R936	1-247-807-31	CARBON	100	5%	1/4W
R777	1-216-809-11	METAL CHIP	100	5%	1/10W	R937	1-247-807-31	CARBON	100	5%	1/4W

Ref. No.	Part No.	Description		Remarks		Ref. No.	Part No.	Description		Remarks				
R938	1-247-807-31	CARBON	100	5%	1/4W			< THERMISTOR >						
R939	1-216-809-11	METAL CHIP	100	5%	1/10W									
R940	1-216-833-11	METAL CHIP	10K	5%	1/10W	TH101	1-804-908-11	C-THMS, 55001						
R941	1-216-833-11	METAL CHIP	10K	5%	1/10W	TH102	1-804-908-11	C-THMS, 55001						
R942	1-216-833-11	METAL CHIP	10K	5%	1/10W			< VIBRATOR >						
R943	1-247-807-31	CARBON	100	5%	1/4W									
R947	1-216-809-11	METAL CHIP	100	5%	1/10W	X901	1-760-252-12	VIBRATOR, CRYSTAL (32.768kHz)						
R948	1-247-807-31	CARBON	100	5%	1/4W	X902	1-795-482-11	VIBRATOR, CERAMIC (16MHz)						
R949	1-247-807-31	CARBON	100	5%	1/4W			*****						
R950	1-247-807-31	CARBON	100	5%	1/4W			1-686-724-13 MODE MOTOR BOARD						
R951	1-247-807-31	CARBON	100	5%	1/4W			*****						
R952	1-216-809-11	METAL CHIP	100	5%	1/10W			*****						
R953	1-216-809-11	METAL CHIP	100	5%	1/10W			*****						
R954	1-216-809-11	METAL CHIP	100	5%	1/10W			*****						
R955	1-216-809-11	METAL CHIP	100	5%	1/10W			PT BOARD						
R956	1-216-809-11	METAL CHIP	100	5%	1/10W			*****						
R958	1-247-807-31	CARBON	100	5%	1/4W			< CAPACITOR >						
R959	1-247-807-31	CARBON	100	5%	1/4W									
R960	1-216-809-11	METAL CHIP	100	5%	1/10W	C254	1-127-888-11	CERAMIC	0.1uF	10%	50V			
R961	1-216-809-11	METAL CHIP	100	5%	1/10W			< CONNECTOR >						
R962	1-216-809-11	METAL CHIP	100	5%	1/10W									
R963	1-216-809-11	METAL CHIP	100	5%	1/10W	* CN256	1-564-687-11	PIN, CONNECTOR (3.96mm PITCH) 3P (E51, SP, KR)						
R965	1-216-864-11	SHORT CHIP	0			* CN257	1-564-508-11	PLUG, CONNECTOR 5P						
R966	1-216-864-11	SHORT CHIP	0					< RESISTOR >						
R977	1-216-833-11	METAL CHIP	10K	5%	1/10W									
R978	1-216-841-11	METAL CHIP	47K	5%	1/10W	△ R254	1-219-237-11	SOLID	3.3M	20%	1/2W (US, CND)			
R979	1-216-841-11	METAL CHIP	47K	5%	1/10W			*****						
R980	1-216-833-11	METAL CHIP	10K	5%	1/10W			1-686-726-13 ROLLER MOTOR BOARD						
R981	1-216-864-11	SHORT CHIP	0					*****						
R985	1-216-821-11	METAL CHIP	1K	5%	1/10W			1-686-723-13 SENSOR BOARD						
R986	1-216-821-11	METAL CHIP	1K	5%	1/10W			*****						
R987	1-216-821-11	METAL CHIP	1K	5%	1/10W			*****						
R988	1-216-821-11	METAL CHIP	1K	5%	1/10W			*****						
R989	1-216-837-11	METAL CHIP	22K	5%	1/10W			*****						
R990	1-216-829-11	METAL CHIP	4.7K	5%	1/10W			1-686-723-13 SENSOR BOARD						
R991	1-216-829-11	METAL CHIP	4.7K	5%	1/10W			*****						
R992	1-216-829-11	METAL CHIP	4.7K	5%	1/10W			< IC >						
R993	1-216-829-11	METAL CHIP	4.7K	5%	1/10W									
					(US, CND, E51)	IC751	8-749-017-45	SENSOR, PHONT RPR-220C1N						
R993	1-216-864-11	SHORT CHIP	0 (SP, KR)					*****						
R994	1-216-821-11	METAL CHIP	1K	5%	1/10W			ST ENCODER BOARD						
					(E51)			*****						
R994	1-216-825-11	METAL CHIP	2.2K	5%	1/10W			*****						
					(US, CND)			*****						
R994	1-216-864-11	SHORT CHIP	0 (AEP, UK)					1-686-725-13 STOCKER MOTOR BOARD						
R995	1-216-853-11	METAL CHIP	470K	5%	1/10W			*****						

< RELAY >														
△ RY251	1-755-334-11	RELAY, AC POWER (US, CND, AEP, UK)												
△ RY252	1-755-496-11	RELAY (E51, SP, KR)												
< SWITCH >														
△ S250	1-786-408-11	SELECTOR, VOLTAGE (SWS-2301) (VOLTAGE SELECTOR)(E51, SP)												
		< SWITCH >												
		S711 1-786-382-11 SWITCH, PUSH (1 KEY)									(DISC INSERT (8/12cm))			

The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

		SW (2)		SW (3)		SW (4)		USB			
Ref. No.	Part No.	Description		Remarks		Ref. No.	Part No.	Description		Remarks	
	1-686-728-13	SW (2) BOARD	*****					< SHORT >			
		< SWITCH >					FB801	1-216-864-11	SHORT CHIP	0	
							FB802	1-216-864-11	SHORT CHIP	0	
							FB803	1-216-864-11	SHORT CHIP	0	
S713	1-786-382-11	SWITCH, PUSH (1 KEY) (DISC IN (8/12cm))						< IC >			
S714	1-786-382-11	SWITCH, PUSH (1 KEY) (DISC IN (8cm))					IC801	6-705-055-01	IC PCM2704DBR		

	1-686-729-13	SW (3) BOARD	*****					< JACK >			
		< SWITCH >					*	J801	1-784-010-11	CONNECTOR, USB (B) (USB 	
									< SHORT >		
S715	1-786-382-11	SWITCH, PUSH (1 KEY) (DISC OUT)									

	1-686-730-13	SW (4) BOARD						JR804	1-216-864-11	SHORT CHIP	0
		< SWITCH >					JR805	1-216-864-11	SHORT CHIP	0	
							JR806	1-216-864-11	SHORT CHIP	0	
								< TRANSISTOR >			
S716	1-786-382-11	SWITCH, PUSH (1 KEY) (STOCKER IN/OUT)					Q801	1-801-806-11	TRANSISTOR	DTC144EKA	
S717	1-786-382-11	SWITCH, PUSH (1 KEY) (DISC POSITION)					Q802	8-729-027-23	TRANSISTOR	DTA114EKA-T146	
S718	1-786-382-11	SWITCH, PUSH (1 KEY) (STOCKING)						< RESISTOR >			

	A-4751-918-A	USB BOARD, COMPLETE	*****					R801	1-216-821-11	METAL CHIP	1K
		< CAPACITOR >						R802	1-216-809-11	METAL CHIP	100
C801	1-124-589-11	ELECT	47uF	20%	16V			R803	1-216-270-00	RES-CHIP	1M
C802	1-165-908-11	CERAMIC CHIP	1uF	10%	10V			R804	1-216-801-11	METAL CHIP	22
C803	1-165-908-11	CERAMIC CHIP	1uF	10%	10V			R805	1-216-801-11	METAL CHIP	22
C804	1-165-908-11	CERAMIC CHIP	1uF	10%	10V			R806	1-216-823-11	METAL CHIP	1.5K
C805	1-165-908-11	CERAMIC CHIP	1uF	10%	10V			R807	1-216-823-11	METAL CHIP	1.5K
C806	1-162-921-11	CERAMIC CHIP	33PF	5%	50V			R808	1-216-853-11	METAL CHIP	470K
C807	1-162-920-11	CERAMIC CHIP	27PF	5%	50V			R809	1-216-853-11	METAL CHIP	470K
C808	1-165-908-11	CERAMIC CHIP	1uF	10%	10V			R810	1-216-801-11	METAL CHIP	22
C809	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V			R811	1-216-801-11	METAL CHIP	22
C810	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V			R812	1-216-809-11	METAL CHIP	100
C811	1-124-589-11	ELECT	47uF	20%	16V			R813	1-216-809-11	METAL CHIP	100
C812	1-124-589-11	ELECT	47uF	20%	16V			R814	1-216-809-11	METAL CHIP	100
C813	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V			R815	1-216-845-11	METAL CHIP	100K
C814	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V			R816	1-216-801-11	METAL CHIP	22
C815	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V			R817	1-216-857-11	METAL CHIP	1M
C816	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V			R818	1-216-813-11	METAL CHIP	220
C817	1-124-589-11	ELECT	47uF	20%	16V			R819	1-216-813-11	METAL CHIP	220
C818	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V			R820	1-216-845-11	METAL CHIP	100K
C819	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V			R821	1-216-821-11	METAL CHIP	1K
		< CONNECTOR >						< VIBRATOR >			
CN801	1-568-850-11	CONNECTOR, FFC 7P					X801	1-767-925-11	VIBRATOR, CRYSTAL (12MHz)		
		< DIODE >						*****			
D804	8-719-988-61	DIODE 1SS355TE-17						MISCELLANEOUS			
		< EARTH TERMINAL >						*****			
* EP801	1-537-738-21	TERMINAL, EARTH					4	1-823-669-11	WIRE (FLAT TYPE) (11 CORE)	(EXCEPT AEP, UK)	
							4	1-828-895-11	WIRE (FLAT TYPE) (15 CORE)	(AEP, UK)	
							5	1-693-625-11	TUNER (FM/AM) (US, CND)		
							5	1-693-626-11	TUNER (FM/AM) (AEP, UK)		
							5	1-693-628-21	TUNER (FM/AM) (E51, SP)		

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
5	1-693-629-11	TUNER (FM/AM) (KR)		605	1-827-992-11	WIRE (FLAT TYPE)(16 CORE)	
6	1-763-697-21	DC FAN		△ 606	8-820-252-01	OPTICAL PICK-UP (KSM-215CFP/C2NP) (included in M101, M102)	
61	1-828-360-11	WIRE (FLAT TYPE) (19 CORE)		607	1-828-403-11	WIRE (FLAT TYPE)(27 CORE)	
68	1-796-351-71	MECHANISM, SIGNAL CASSETTE (CMAL1Z250A)		M761	A-4735-953-A	MOTOR ASSY (STOCKER)	
73	1-828-948-11	WIRE (FLAT TYPE) (7 CORE)		M771	A-4735-953-A	MOTOR ASSY (MODE)	
102	1-828-007-11	WIRE (FLAT TYPE) (8 CORE)		M781	A-4735-953-A	MOTOR ASSY (ROLLER)	
△ 104	1-769-079-41	CORD, POWER (KR)		△ PT252	1-443-217-11	TRANSFORMER, POWER (AEP, UK)	
△ 104	1-769-744-52	CORD, POWER (AEP, UK, E51, SP)		△ PT252	1-443-219-11	TRANSFORMER, POWER (US,CND)	
△ 104	1-783-531-12	CORD, POWER (US, CND)		△ PT253	1-443-220-11	TRANSFORMER, POWER (E51,SP,KR)	
106	1-400-043-11	CORE, FERRITE (US, CND)		S702	1-477-299-11	ENCODER, ROTARY (STOCKER POSITION)	
106	1-469-636-11	CORE, FERRITE (ESD-R-25SD)		S771	1-477-300-11	ENCODER, ROTARY (MODE)	
311	1-828-404-11	WIRE (FLAT TYPE)(27 CORE)					

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque  ou une ligne pointillée avec une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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MEMO

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SSX-LZX7

SERVICE MANUAL

Ver 1.0 2004.05

US Model
Canadian Model
AEP Model
UK Model
E Model



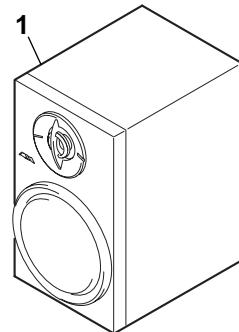
- SSX-LZX7 is the speaker system in AWP-ZX7.

SPECIFICATIONS

Speaker system	2-way, bass-reflex type
Speaker units	
Woofer:	12 cm dia., cone type
Tweeter:	5 cm dia., cone type
Nominal impedance	6 ohms
Speakers:	Approx. 170 × 277 × 188 mm
Speakers:	Approx. 2.7 kg net per speaker

Design and specifications are subject to change
without notice.

EXPLODED VIEWS (L-ch)



Ref. No.	Part No.	Description	Remark
1	A-4714-376-A	SYSTEM (L) ASSY	
1	A-4714-377-A	SYSTEM (R) ASSY	

SPEAKER SYSTEM



REVISION HISTORY

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